



ALLXANDER'S VOYAGE ARRESTED BY OCEAN-CURRENTS IN THE SEA OF CHINA From the Islandarmama, British Museum MS, Or. 6810 f 225°

A HISTORY OF PERSIAN NAVIGATION

BY

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WITH TWO PLATES IN COLOUR AND NINE IN MONOTONE



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No...b..

TO MY BELOVED WIFE, KISHWAR BEGUM

WHO HAS MADE GREAT SACRIFICES FOR MY SAKE, AND WHOSE DEVOTION IT IS IMPOSSIBLE FOR ME TO REQUITE

من تو شدم تو من شدي من تن شدم تو جان شدي تا كس نه گويد بعد از اين من ديگرم تو ديگري

FOREWORD

I have read parts of Prof. Hādī's book on Persian Navigation with great interest and profit. Besides the innumerable Persian, Arabic and Chinese sources, he has utilized all the available sculptural, pictorial and numismatic material in establishing the conclusion that whilst the land empire of the Sāsānids perished with the fall of Yazdigird the maritime activity of the Persians continued till the caliphate of al-Mutawakkil, when it began to be displaced by the Arabs. The author's great capacity for sustained work, his infinite patience in sifting the details of evidence, and above all his youthful enthusiasm for the subject of his study—all this is abundantly clear from the remarkable work that he has produced. I have no doubt that Prof. Hādī's work is a very important contribution to modern historical research relating to Persian antiquities. It is needless to add that Prof. Hādī is a brilliant Persian scholar from whose pen yet greater things are expected.

MUḤAMMAD IQBĀL

Lahore

CONTENTS

PREFACE					•		•			<i>page</i> Xi
PERSIAN NAVIGATION	in L	EGEND	ARY	Tim	ks .	•		•		3
Achaemenian Navig	ATION	•		•	•			•		17
Trade-conditions in Persia .										
SASANIAN NAVIGATION	N .	•	•		•	•		•	•	59
PERSIAN NAVIGATION	in E	arly I	Миӊ	AMM	ADAN	Тімк	s.			95
PERSIAN NAVIGATION	FROM	THE	10тн	CEN	TURY	то тн	E 1	6тн		123
THE EVIDENCE OF PE	RSIAN	LITE	RATU	RE						153
INDEX					•					165

LIST OF ILLUSTRATIONS

ALEXANDER'S VOYAGE ARRESTED 1	ву Ос	EAN	-Cu	rren	TS II	THI R	e Sea	A OF	
CHINA (in colour)	•		•	•		•			ispiece
Persian Coins in the British M	useun	M		•				Faci •	ng page 18
'PERSIAN' SHIP, AJANTA (Reproduced from C. Torr's Ancien Cambridge University Press)	t Ship	, s, by	per	missic	m of	the p	ublish	iers,	60
PALLAVA AND ANDHRA COINS		•		•	•	•	•		60
PERSIAN AMBASSADORS AT THE COU (Reproduced from J. Griffiths' The I Ajanta, by permission of the Secretary	aintin	gs in	the	Buda				us of	88
THE BOAR HUNT OF KHUSRAW PAR (Reproduced from G. Rawlinson's T permission of the publishers, Longman	he Sev	enth			iental	Mon	urchy,	, by	92
RUINED MOSQUE, TUMBATU . (Photo: A. C. Gomes & Son, Zanzībar)		•	•	•	•	•	•	124
The <i>Rāhnāma</i> in the <i>Iskandar-n</i>	ĀMA (of N	ΙĮĀ	МĪ					130
RUINED MOSQUE, KILWA (Reproduced from J. Strander Die I Ostafrika, by permission of the author,			-					isch	134
A PILLARED TOMB AT NDAGONI, PE (Photo: A. C. Gomes & Son, Zanzibar)			•	•	•	•	•	•	136
THE WORLD ACCORDING TO QAZWIN	ĩ.		•	•			•	•	140
KAY KHIISRAW CROSSES THE SEA OF	ZIRE	e Te St	(in d	เกโกะ	r)				154

PREFACE

history of Persian navigation has, I believe, not yet been written: excess of material was there, but bias had stifled inquiry. Writer after writer has declared that the Persian dreaded and abhorred the sea: what Sir John Malcolm whispers in the ear¹ William Vincent proclaims from the housetops². Lord Curzon uses the Persian navy for his mirth and laughter³; Sir P. M. Sykes, generally restrained and sober in his judgment, sees in Persian navigation almost a contradiction in terms⁴. These are historians, deriving their authority for a denunciation of Persian sea-power directly from the verdict of history. Says the boldest among them: "The Persians were never a maritime people. History nowhere speaks of a Pcrsian fleet in the Indian Ocean, or even in the Gulf of Persia; and in the Mediterranean, their sea-forces always consisted of Phoenicians, Cyprians, or Egyptians." It was realized, however, even before the ink on the page was dry that these words were broad and bold; the aid of a footnote was accordingly imported, "I speak of a navy, not ships for trade," and the matter allowed to remain floating in void. Elsewhere footnotes were found insufficient protection against generalization: what was said was unsaid, the change of judgment occurring in less than a dozen pages. "The Persians seem to have had an unconquerable aversion to the sea," says R. H. Major on the second page of his introduction to India

¹ J. Malcolm, *History of Persia*, Vol. 11., p. 63.

² W. Vincent, The Commerce and Navigation of the Ancients in the Indian Ocean, Vol. 11., p. 14, London (1807).

⁸ G. Curzon, *Persia*, Vol. 11., p. 388, London (1892).

⁴ P. M. Sykes, A History of Persia, Vol. I., pp. 4 and 27, London (1915).

xii A HISTORY OF PERSIAN NAVIGATION

in the Fifteenth Century, whilst on page ten, he begins "to entertain a more reasonable notion" of Persian navigation:

"The Persians, who, as we have already said, had in earlier times manifested an extreme dislike to maritime commerce, began, after the subversion of the Parthian Empire, to entertain a more reasonable notion of its importance and value. Having learnt from the small Indian traders, who frequented the various ports in the Persian Gulf, with what safety and rapidity the voyage from thence to Malabar and Cevlon might be performed, they fitted out vessels which made this voyage annually, and thus, in exchange for specie and some of the commodities of their own country, they brought home not only the costly products of India, but also those of China, which they were enabled to procure at Ceylon. By this channel the luxurious inhabitants of Constantinople were furnished in large abundance with the manufactures of Hindustan; and by this means, in conjunction with other causes, the Egyptian trade was subjected to a depression almost amounting to annihilation....The success of the Persians in their commerce with India, which was mainly due to the advantage of their physical situation, increased to such an extent, that at length the whole of the silk trade, which from time immemorial had been imported into Ceylon from China, fell into their hands."

Can a nation which fitted out vessels to make an annual voyage from the Persian Gulf ports to Malabār and Ceylon be charged with an unconquerable aversion to the sea? Inconsistency and contradiction are invariable accompaniments of generalization and generalization is the tombstone of the historian.

Throughout this book an attempt is made to divorce legend from history and fiction from fact: the evidence is presented both for and against, and the evidence is sifted before the conclusions are drawn. References have been given everywhere, but I must frankly acknowledge my indebtedness to Prof. G. Rawlinson, Mr W. H. Schoff, M. G. Ferrand, Mr B. Laufer, and Major F. B. Pearce. The limitations of the libraries in India have prevented me from using Prof. P. Pelliot's works and from taking full advantage

of the contributions of Dr F. Hirth to sinology. For this reason I have avoided, in the present volume, a consideration of Persian navigation in the Caspian Sea.

There remains the pleasant task of adding a few personal touches. Foremost amongst my supporters has been the Vice-Chancellor of my own University, Nawwab Sir Muhammad Muzzammilu'llah Khān, K.C.I.E., O.B.E., who has always taken interest in my work and who has now given me the opportunity of becoming a pupil of Sir E. Denison Ross at the London School of Oriental Studies. Many books, otherwise inaccessible, were sent to me by my friend Mr J. Chapman, the talented librarian of the Imperial Library at Calcutta, and the encouragement to put the material into shape came from the ex-Vice-Chancellor, Sāhibzāda Āftāb Ahmad Khān, Barrister-at-Law, of 'Aligarh. Professors Douglas Hamer and G. H. Luce of the Rangoon University, Mr Bashīru'd-Dīn, Assistant Librarian of the Lytton Library, and Professors A. S. Tritton. A. M. Quraishi, M. M. Sharif, A. B. A. Halim, A. A. Memon, and E. C. Dickinson of my own University have overwhelmed me with their affection and sympathy: I can hardly claim any merit for myself so deep is my obligation to my friends. I must also acknowledge the help I have received from Sir Hormusji C. Dinshaw, Sir Sultān Ahmad, and Messrs 'Umarbhai Chāndbhai and M. Fadlu'd-Din, but no help could be greater than that extended to me by the Universities of Bombay, Mysore, and Haidarābād, where, through the courtesy of Sir Chimanlal Setalwad, Sir Brajendranath Seal, and Nawwāb Sir Haidar Nawāz Jang, I was able to deliver extension lectures on some aspects of Persian literature and civilization. Finally, I have to tender my thanks and gratitude to His Holiness Sayyidnā wa Mawlānā Tāhir Saifu'd-Dīn, the High Pontiff or the Dā'ī'l-Muţlag of the Dā'ūdī Borah community. His Holiness is the

xiv A HISTORY OF PERSIAN NAVIGATION

fifty-first Pontiff of the line which is connected with the illustrious Fātimid Caliphs of Egypt, and his predecessors hailed originally from Yemen where they held the title of Sultān.

My wife has been of great help to me in preparing the index and my learned friend, Mr J. Allan of the British Museum, has kindly read the proofs and supplied me with the casts of Achaemenian coins: the other plates have been reproduced by the kind permission of the authorities concerned—in particular, of the British Museum and the India Office.

HĀDĪ ḤASAN

School of Oriental Studies London, June 1928

PERSIAN NAVIGATION IN LEGENDARY TIMES



PERSIAN NAVIGATION IN LEGENDARY TIMES

The first shipbuilder among the Persians was the legendary Jamshid of the Pishdadian dynasty, who traversed "the waters with his ships and passed from region to region with celerity1." Thereafter, in the reign of Dahhāk, a large punitive expedition was despatched against Bahū or Sarandīb-Shāh of Ceylon, a vassal of Mahārāi, the ruler of India. It appears that Mahārāj suddenly faced with the rebellion of Bahu applied to his overlord, Dahhāk, then holding his court at Jerusalem, for immediate help. And the dragon's wrath being enkindled, the orders went forth to Garshāsp the Iranian general to "seize Bahū and drag him in bonds to the court of Mahārāj and raise him to the gallows2." And so the royal fleet of several thousand sail³ leaves Jerusalem and covering in six months the distance of a year is at Kalah, a maritime city on the southern mainland of India⁴. Thence the army is conveyed to Ceylon where Bahū had assembled sixteen thousand war-elephants and two million troops to resist the invasion. The military details. however, do not concern us: Bahū was beaten, and the Persian army came home victoriously in a hundred and twenty ships⁵

¹ The <u>Shāhnāma</u> of Firdawsī:

كذر كرد از آنيس بكشتى بر آب ز كشور بكشور برآمد شتاب ² The Gar<u>sh</u>āspnāma of 'Alī bin Aḥmad al-Asadī, completed in A.H. 458 = A.D. 1066.

سوی کشور هند پرواز کن سراندیب شه را ز کین ساز کن بهرو را ببند و ز آنجا بیار بدرگاه مهراج بر کش بدار

3 Idem:

بغرموده امرتا ز دریا کنار بیآرند کشتی هزاران هزار

⁴ So should it be according to the Romance, but history equates Kalah to Kedah or Kerah (Kra) on Malacca. "The other attempts to locate the position of Kalah—on Ceylon (harbour of Ghālī; Galle, Point de Galle, so Reinaud and Dulaurier), Malabar (so Renaudot), Coromandel (so Gildemeister)—should now be definitely rejected as wrong." See the article Kalah, *Encu. of Islām*.

The Garshāspnāma:

به ایرانیان داد کشتی دو شصت بدو کشتی او با سهه بر نشست

supplied by the grateful Mahārāj. Had death thinned the ranks of the combatants or the yesty waves swallowed the Persian fleet?

The picturesque contents of the Garshaspnama do not permit analysis or investigation, but not for this reason may the argument of Sir W. Ouseley be disregarded. "The three years which Solomon's servants, going and returning, employed on the Ophirian vovage." says he, "is a space of time exactly agreeing with the 'one year and six months1' assigned for Garshasp's expedition to Ceylon. And this will not seem a very immoderate allowance if we consider that in those early ages navigation was but imperfectly understood; that the small and fragile ships were ill adapted to a considerable expanse of ocean, and generally conducted along the coast by means, not only of sails, but occasionally of oars, and that a circuitous progress so performed between the Elanitick gulf and Taprobane or Ceylon, must have required much time, even without the frequent necessity of stopping at various places, to obtain fresh water and supplies of food, or the delays caused by accidental injuries and commercial navigation2."

With the transfer of government from the Pīshdādians to the Kayānians the scene of action shifts from Sarandīb to Hāmāwarān. In touring through his territory Kay Kā'ūs passes through Nīmrūz and reaches the coast of Makrān and resolves to make a sudden

¹ The translation is either incorrect, or based on an incorrect copy of the Gar<u>sh</u>āspnāma, for the text of the British Museum MS. Or. 2878 f. 16^b is:

Similarly, according to the MS. Persian Class II No. 3, Bombay Branch of the Royal Asiatic Society, f. 39^a:

It is twice stated on f. 269^b that the MS. was transcribed at Shīrāz in 625 A.H., but this date should be corrected to 825 A.H.: in both places the original 8 has been removed with the end of a knife, and, to prevent the ink from spreading, the 6 has been inserted away from the 8 of which the outlines are still visible.

² W. Ouseley, Travels in the East, Vol. 1., pp. 51-52, London (1819).

descent upon Hāmāwarān¹. And so innumerable boats and ships are built² and the king embarks with all his troops and leaving the waters of Zirreh behind³ sails a thousand leagues⁴ till at last he is in sight of land again with Berber on his right and Miṣr on his left and Hāmāwarān straight before him⁵. Of the toponyms mentioned by Firdawsī, Hāmāwarān is, according to Prof. Darmesteter, a form of the word Ḥimyar, a synonym for Yemen, whilst Berber is "the Berbera nearly opposite Aden on the British Somali coast protectorate. This is the Pun-t of the Egyptian hieroglyphs, and was then, and is still a great trading station. When the south-west monsoon changes into the north-east thousands of traffickers begin to arrive and the place is kept busy from October to April⁶."

The other names present no difficulty: Nīmrūz is Sīstān⁷; Miṣr is Egypt; and the coast of Makrān is the coast of Balūchistān. Firdawsī's use of the word Zirreh, however, has given rise to unnecessary confusion. Zirreh represents today one of the three main depressions of Sīstān, being usually a salt desert and less frequently a marsh or a lake⁸. But formerly, according to General A. Houtum

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<sup>1</sup> The <u>Shāhnāma</u> of Firdawsī:
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بزد کوس و بر داشت از نیمروز شده شاد دل شاه کیتی فروز از ایران بشد تا بتوران و چین گذر کرد از آنیس بهکران زمین

² Idem:

بی اندازه کشتی و زورق بساخت بیبآراست لشکر بدو در نشاخت

3 Idem:

عبر شد بدیشان که کاوس شاه بر آمد ز آب زره با سهاه

Idem:

ههانا که فوسنگ بودی هنزار اگر پهای را رای کردي شهار

5 Idem:

بدست چپش مصر و بربر براست رهش در میانه بدانسو که خواست به پیش اندرون شهر هاماوران بهبر کشوری در سهاهی گران

⁶ Warner and Warner, The Shāhnāma of Firdausī, Vol. II., p. 79.

⁸ G. Curzon, Persia, Vol. I., p. 226.

⁷ G. le Strange, The Lands of the Eastern Caliphate, p. 334. Lit. 'mid-day' or the Southern Land, "a name said to have been applied to the province in regard to its position to the south of Khurāsān."

Schindler, "there were probably a number of distinct lakes, now patches of salt desert, which are spoken of in the popular legends of Persia as a vast sea extending from Kazvin on the north to Kerman and Mekran on the south, (and) from Savah on the north to the Sistan depression in the east. These legends, which I have heard at many places on the confines of the desert, not only speak of a great sea, but also mention ships, islands, port, and lighthouses. The old town on the hills north-east of Kazvin is popularly called a lighthouse, and the village Barchin, north of Yezd, and not far from Maibud, is called an old seaport and custom-house1." Agreeing, therefore, with Schindler and Sykes in the extension of an inland sea over what is now the Iranian plateau2, it would appear that the geographical change was met, not by the coinage of a new word, but by the retention of the old Zirreh and the transformation of its sense. The modern word for a swamp has thus come to be identical with the ancient word for the sea, and the Zirreh of Firdawsī therefore is not the Sīstān depression of today but the great inland sea of pre-historic times. This view is moreover supported by the evidence of philology, for Zirreh is merely the Pahlawi form of the Persian daryā, a sea, lake, or river. From this Warner concludes that "such an expression as 'the sea of Zirih' is not only tautological but distinctly misleading. We translate 'Zirih' sea. The expedition of Kay Kā'ūs looks like an attempt to capture an ancient trade-route3."

So far on the basis of legend. But the expedition, though denied the weight of history, has not failed to secure the support of historians. Tabarī, Mas'ūdī, and Tha'ālibī for example agree in crediting Kay Kā'ūs with the temporary conquest of Yemen. "After having visited Khurāsān, Jibāl, Fārs, and 'Irāq," says Tha-'ālibī, "and having examined the situation of those provinces, and set up administrators therein, Kay Kā'ūs left for Yemen. And as he drew near the King Dhū'l-Adh'ār, son of Dhū'l-Manār, son of al-Rā'ish, the Ḥimyarite, marched against him with the Qails of

¹ Geographical Proceedings, 1888, f.n., p. 625.

² P. M. Sykes, A History of Persia, Vol. I., p. 25, London (1915).

³ Warner and Warner, The Shahnama of Firdausi, Vol. 11., p. 80.

the Himyarites, the princes of Qahtan, and the tribes of Barbary. A fierce battle took place and the full cup of death continually went round the ranks of the armies1."

Tha'ālibī's account is at once an abridgement and an enlargement of the Shāhnāma, for, on the one hand, the details of the voyage are omitted, and on the other, the Himyarite king is specifically mentioned by name. Now, according to Hamza of Isfahan, al-'Abd Dhū'l-Adh'ār the Himyarite was brother to Ifrīqīs and son to Abraha Dhū'l-Manār, the son of al-Hārith al-Rā'ish2, so that the several accounts are corroborative of one another. But because fact and fiction are freely miscible it is best perhaps not to attempt any reconciliation of legend with history.

Meanwhile, to return to the Shāhnāma, Kay Kā'us defeats the king of Hāmāwarān, and obtains, as a prize of war, the hand of Sūdāba, whose beauty had made the victor a willing captive. The way is thus open to Arab treachery which succeeds where Arab valour had failed: Kay Kā'ūs is lured into a fortress and there confined. The mournful tidings reach the ears of Rustam and become the signal for the mobilization of an army, which is hurried across to Hāmāwarān by sea, for the way by land was tedious³:

He ordered the host to embark and take dire revenge on Hamawaran. And travelled by the sea-route, for the way by land was tedious. The mighty host drew near to Hāmāwarān, in ships and boats, And resolved on carnage and destruction: all compunction was banished from the heart.

¹ Ath-Tha'ālibī, Histoire des Rois des Perses, ed. H. Zotenberg, p. 158:

فطوف في خراسان و الجبال و فارس و العراق و طالع احوالها و رتّب عبّالها و امتدّ الي بـلاد اليبَّن فليًّا شارفها خرج اليه ملكها ذوالاذعار بن ذي المنار بن الرائش الحميريّ في اقيال حمير و انياب قحطان و جمرات بربر فتقاتلوا قتالاً شديداً و دارت عليهر كاس البوت دماقأ

3 The Shāhnāma:

بفرمود تا بر نشیند سهاه یی رزم هاماوران کینه خواه سوی ژرف دریا بیآمد بجنگ خه بر خشك بر بود ره با درنگ بكشتی و زورق سهاهی گران رسیدند نزدیك هاماوران

بتآراج و کشتن بیآراستند از آزرم دلها به پیراستند

² Hamza of Isfahān, Annals, ed. Gottwaldt, p. 125.

The arrival of the Persian fleet gave the coup de grace to Himyarite machinations, whilst the invincible Rustam completely re-established the prestige of the Persian army by doubly redoubling strokes upon the foe. The task of the punitive expedition was thus accomplished, and with the release of Kay Kā'ūs, and his triumphal return to Īrān, the tale has all been told.

The technique of telling will be discussed hereafter; meanwhile in connection with the interminable feud between Īrān and Tūrān, there arises another opportunity for naval action. Kay Khusraw, grandson and successor to Kay Kā'ūs, is hot on the trail of Afrāsiyāb, whose way of life has fallen into the sear, the yellow leaf. Safety lies in flight, and flight takes him along Mount Ispuruz "of the Alburz range bordering Māzandarān¹" towards the sea "which can be none other than the Caspian²." There, before the deep to which he saw no middle and no end, Afrāsiyāb stood for a while hesitating, for he was between the devil and the deep sea³. Eventually, the die was cast and Afrāsiyāb sailed away, hoping to escape and be at rest⁴. But neither the unassailable palacefortress of distant Khwārazm, nor the impassable barrier of the sea could check the advance of the vindictive Kay Khusraw. "If

And when he reached the deep, of which he saw neither the middle nor the end, He bade the shipman prepare a ship to carry him across;

'For,' said the mighty Afrāsiyāb, 'happy is he who finds a watery grave.'

4 The Shāhnāma:

He ordered the captains to put several vessels out to sea; And set sail for Gang-digh, renouncing both good and evil.

t ² Warner and Warner, The <u>Shāhnāma of Firdaus</u>ī, Vol. IV., p. 136.
 The Shāhnāma:

heaven will favour us," said he, "we shall bear the host across the 868.1 "

And so Kay Khusraw proceeded to track Afrasiyab down in his retreat across the sea. The route lay through Makran where Kay Khusraw tarried a whole year², impressing ships and crew³. And when his necessaries were embarked4, and provisions for a year stowed in⁵, he prayed to God for a safe and prosperous voyage⁶. The sea was rough, and all hearts were distressed, but they kept their course and sailed steadily on, till after a six months' voyage, the north wind arose and drove the fleet towards 'the Lion's Mouth?.' The King's prayer, however, did not remain unanswered:

¹ The Shāhnāma:

جهاندار سالی بهکران بهاند از هر جا کشتی گران را بخواند The world-lord remained a year in Makran and summoned pilots from all places.

3 Idem:

And when he reached the sea, the warriors loosened their belts; The King had impressed for the voyage seamen from China and Makran.

4 Idem:

بخشكي بكرد آنچه بايست كرد _ چو كشتى بآب اندر افكند مرد He did on land what men must do before putting out to sea. ⁵ Idem:

بفرمود تا توشه بر داشتند از یکساله تا آب بگذاشتند He bade them take a year's provisions for the voyage.

6 Idem:

همی خواست از کردگار بلند که او را بخشکی برد بی گذند He besought the Creator to take him to dry land without mishap.

7 Idem:

بششهاه کشتی برفتی بر آب کزو ساختی هر کسی جای خواب به بهتر که نیمی گذشتی ز سال شدی کر و بیبراه باد شهال سر بادبان تینز بر کاشتی خله پیش ملاح نگذاشتی بیجای کشیدی ز راه خرد که ملاح خواندیش فر الاسد

God had ordained that wind and wave should omit their moral nature and let the royal fleet go safely by1. And so, after a perilous voyage of seven months2, in a sea infested with terrible and prodigious things3, the ships sailed safely into port and discharged their precious freight.

For six months they sailed on the deep and the vessels were their couch; On the seventh month, after the lapse of half-a-year, the north wind became wild and contrary:

It deflected the sails of the ship with violence; it did not permit the helmsman to keep his helm;

It drove the ship from its proper course to a place which the sailors call 'the Lion's Mouth.'

¹ The Shāhnāma:

چنان ساخت یزدان که باد و هوا نشد تند با اختر بادشاه God had ordained that wind and storm should not deal ungently with the fortune of the King.

2 Idem:

گذشتند بر آب در هفت ماه که بادی نکرد اندر ایشان نگاه They crossed the sea in seven months, nor did a tempest visit them (again).

3 Idem:

شکفت اندر آن آب مانده سهاه نهودی بانگشت هر یك بشاه بآب اندرون شیر دیدند و گاو همیداشتی گاو با شیر تاو همان مردم و مویها چون کهند . همه تن پر از پشم چون گوسفند گروهی سران چون سر گاومیش دو دست از پس پشت بُد پای پیش یکی تن چو ماهی و سرچون پلنگ یکی سر چو کور و تنش چون نهنگ یکی را سر خوك و تن چون بره همه آب از اینها بدی یكسره نمودي همي اين بدان آن بدين همي خواندندي جهان آفرين

The soldiers marvelled at the waters and pointed out to the King What they saw-lions and oxen, fighting in the deep;

And men with hair like lassoes, and covered with wool, like the bodies of sheep; Others, with heads like buffaloes and with hands behind and feet in front. There was a fish with the head of a wolf, an ass with the trunk of a crocodile, And a lamb with the head of a hog-and the water teemed with them.

They pointed the monsters out to one another, and called upon God (for protection).

And Kay Khusraw was lifted up in heart and led his troops through the strange land which lay before him, a land where the tongue of Makrān was spoken, and where the cities resembled those of Chīn. And he went straight on and seized Gang-dizh and stayed there a whole year but the elusive Afrāsiyāb was nowhere to be found. Could he have recrossed the Zirreh to seize the undefended throne of Īrān in the absence of the king?

And on a sudden doubt changed into certainty, and fear overswayed revenge, making the king change his line of action: revenge had suggested pursuit; danger now counselled retreat.

And so the disappointed king returned to port and embarked his troops in a thousand ships, all well manned and stoutly rigged: the sails had been inspected by the king himself, and the crew drawn from seamen of approved allowance. And a couple of pilotboats led the way, as they were ordered out to sea earlier than the rest. And the stars were kind and the sea slumbered; while a favourable breeze uprose and sat in the shoulder of the sail, so that seven months sufficed to complete the voyage of a year¹.

¹ The Shāhnāma:

فرود آمد و بادبانها بدید ز دیدار با گیو چندی براند دو زورق بآب اندر انداختند بآب اندرون راند پس شهریار که بر ژرف دریا دلیری نمود بدریای بی پایه اندر کشند چنان تیز شد باد در هفت ماه که از باد کر آستین تر نگشت

چو خسرو بنزدیك دریا رسید دو هفته بر آنروی دریا بیاند بخرصود تا گار بر ساختند پس زورق اندر ز کشتی هزار شناسای کشتی هر آنکس که بود بخرصود تا بادبان بر کشند همان آب دریای یکسال راه که آنشاه و لشکر بدینسو گذشت

The King alighted, when he reached the sea, and inspected the sails,

And remained on the shore a fortnight, talking much with Giv of all that he
had seen.

Then he ordered his men to set about their work and launch a couple of boats on the sea;

And he bade a thousand ships to be put to sea in the wake of the (pilot-) boats;

The reader is now in possession of all the facts, both trivial and important. Rarity has dictated their treatment in extenso: details have been given because details of the sea are not usually given by Firdawsī. "The poet," says Prof. Nöldeke, "and the whole tradition lies behind him, has no experience whatever of the sea, one might even say travelling by sea1." For "while Afrasiyab in his flight from Kay Khusraw could have crossed no other sea than the Caspian, yet Kay Khusraw is described as sailing from and returning to the shore of Makran, i.e. Balūchistan2"—a puzzle, solved only by assuming with Firdawsī that "Īrān, the Central Clime of the Seven Climes into which the earth was divided, was surrounded by the circumambient ocean, and that the Indus. Oxus. Arras. Euxine. Bosphorus, Sea of Marmora, Dardanelles, Nile, and the Indian Ocean, were a chain of rivers, lakes, gulfs, and seas, all in communication with each other3." Even so, confusion is not altogether eliminated, for the whirlpool called 'the Lion's Mouth' is a feature not of the Waters of Zirreh but the Sea of China.

And in this sea (of <u>Chīn</u> and Mā<u>chīn</u>) there are whirlpools, which are called 'the Lion's Mouth' or also Durdawr, wherein every ship that enters is lost, unless God wills otherwise. And mariners know these (dangerous) places in the rolling sea, and avoid them for the sake of safety.

And he bade all who were expert mariners, or showed courage on the high seas To sail upon the bottomless deep.

And so favourable was the wind that the voyage of a year was completed within seven months;

And the King crossed over with his army, and not a deck was moistened by a contrary wind.

¹ Th. Nöldeke, Grundriss der iranischen Philologie, Vol. I., p. 177.

² Warner and Warner, The Shāhnāma of Firdausī, Vol. IV., p. 136.

⁸ Idem, Vol. I., p. 71.

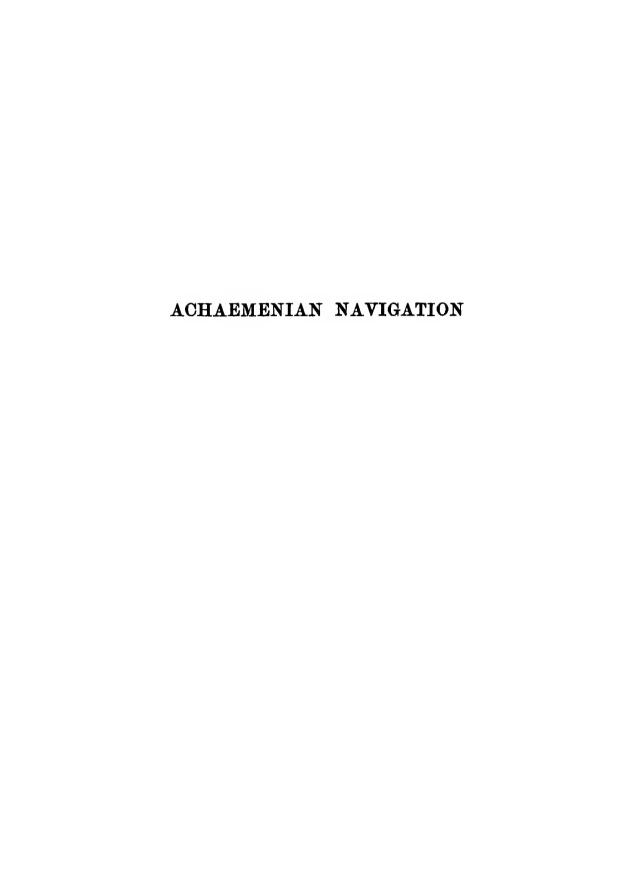
⁴ Ḥamdu 'llāh Mustawfī, *Nuzhatu 'l-Qulūb*, ed. G. le Strange, p. 239 :

و در این بحر گردابهاست که آنرا فهالاسد خوانند و دردور نیز گویند اگر کشتی درو افتید جز بهاشاءالله خلاصش نباشد و در دریا ورزان آن مقامها را بشناسند و از آن احتراز نهایند تا در امان باشند

Cosmogony, then, has enabled Firdawsī to evade oceanography, but how was he to find a mask for veiling his ignorance of seacraft and navigation? He was prepared for any port in a storm, if only a port could be found. Imagination could create sea-monsters but could not build ships or drive them. Nothing therefore was done since nothing could be done: the reader may search the <u>Shāhnāma</u> in vain for an account of ships or nautical technique.

This defect which the <u>Shāhnāma</u> shares with Persian literature in general has undoubtedly strengthened the theory of Persian aversion to the sea. But though Persian literature has feared and avoided the sea Persia herself has not. The literary evidence conflicts with the historical and must be kept apart. Because Firdawsī's description of the sea is incorrect does his evidence in favour of the sea-voyages of Kay Kā'ūs and Kay <u>Kh</u>usraw become incorrect? Because Asadī did not know the sca must the naval expedition of Garshāsp be rejected? Truth is not a lie if spoken by the devil: the accounts of Asadī and Firdawsī do not lack veracity because they lack personal acquaintance with the sea.

The Garshāspnāma and the Shāhnāma, therefore, have at least a claim to be heard. The mists of legend gather round the route of Garshāsp and Kay Kā'ūs in the southern sea, and Nature has conspired with antiquity in covering the track of Kay Khusraw in the northern sea with dust, but is there no Kindly Light to grant even a distant vision of the royal fleet, indistinguishable with its Kāwa flags from the aerial blue, still floating on the waves of time, to Sarandīb and Ḥimyar and Gang, from one arm of the circumambient ocean to another?



ACHAEMENIAN NAVIGATION

The history of Achaemenian navigation can be compressed into a single sentence: the Achaemenians were not drawn to the sea but driven to it. For the Persians, who had migrated overland to Fārs¹, were an agricultural or pastoral people², unacquainted with maritime affairs3. But when the land-empire of Persia, on reaching the coast of Asia Minor, found itself confronted with the naval strength of Greece and Egypt, the acquisition of sea-power could •no longer be delayed—unless the Achaemenians wished to abandon their scheme of world-imperialism, and even the territory they had already gained. Now the people of the Asiatic seaboard, and especially the Phoenicians, were a racc of mariners and could therefore help Persia in taking the short cut to the acquisition of sea-power: in other words, a fleet was necessary, but it was not nccessary to build a fleet when a fleet could be obtained. Consequently, the subjugation of the Greek colonics in Asia Minor was effected so mildly that only the Phocaeans and the Teians quitted their homes to found Hyela and Abdcra 4 whilst the others "remained in their own countries and submitted to the commands imposed on them." Similarly, the Phoenicians were allowed semiindependence and taxed only a shilling and eightpence per head, although "in modern communities the incidence is generally from ten to twenty times as much⁵." The result was that without ever building a single ship "Persia bore undisputed sway in the Levant during the whole period of her existence as an empire," and for short intervals—from 525 B.C. to 480 B.C., and again from 345 B.C. to 332 B.C.—was even the mistress of the Mediterranean Sea⁶.

¹ G. Rawlinson, The Five Great Monarchies, Vol. III., p. 365, London (1879).

² Herodotus, I., 125.
³ *Idem*, I., 143.

⁴ Idem, L, 167 et 168.

⁵ G. Rawlinson, *Phoenicia*, p. 194.

⁶ G. Rawlinson, The Five Great Monarchies, Vol. III., p. 194, London (1879).
H. H. P. N.

And so, realizing their own limitations, the early Achaemenians behaved gently with the seafaring people they had subdued. "Xenophon considered the arrangement and stowage of the Phoenician ships under Persian rule as superior to that of the vessels of his own countrymen¹," and according to the statue of Utcha-Ḥerresenet, known as the Pastophorus of the Vatican, Cambyses not merely restored the Egyptian temple at Saïs but "performed an act of worship after the manner of the old kings of Egypt, and poured out a libation to the goddess Neith, and made gifts to her temple²." Similarly, Darius founded a college at Saïs for educating priests in the secretarial art³, repaired the temple of Ptah at Memphis⁴, and in honour of the Egyptian Sun-god Amen-Rā built a temple, inscribed with a hymn, in the oasis at Khârga⁵. Finally, Darius completed for Egypt the great canal from the Nile to Suez:

"Neco," says Herodotus, "was son of Psammitichus, and became king of Egypt: he first set about the canal that leads to the Red Sea, which Darius the Persian afterwards completed. Its length is a voyage of four days, and in width it was dug so that two triremes might sail through, rowed abreast. The water is drawn into it from the Nile, and it enters a little above the city of Bubastis, passes near the Arabian city Patumos, and reaches to the Red Sea. The parts of the Egyptian plain that lie towards Arabia were dug first; above this plain is situated the mountain that stretches towards Memphis, in which are the quarries. Along the base of this mountain, therefore, the canal is carried lengthways from the west to the east, and then it stretches to the defiles, passing from the mountains towards the meridian and the south inwards as far as the Arabian gulf....Neco stopped digging it in the middle of the work⁶."

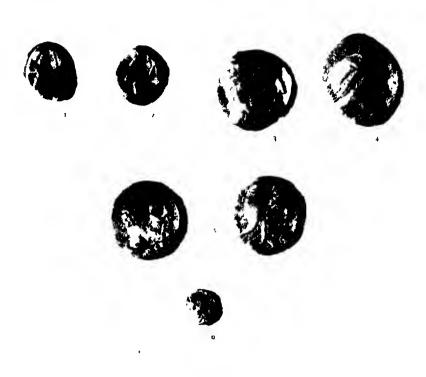
The Grecian account is substantiated by the internal evidence of the large stelae, with the titles and figure of Darius, found at various places along the canal; there is a stele near Suez, for example, with the following inscription:

¹ G. Rawlinson, *Phoenicia*, pp. 195-196.

² E. A. Wallis Budge, A History of Egypt, p. 46, London (1902).

⁸ Idem, p. 47. ⁴ Idem, p. 66. ⁵ Idem, pp. 66-69.

⁶ Herodotus, 1L, 158.



- 1 XERXES
- * ARTAXLEXES * TISSAPHERNES
- 4 PHARNABAZUS 5 TIRIBAZUS 6 TIRIDATES

PERSIAN COINS IN THE BRITISH MUSEUM



"Thus spake king Darius, I am a Persian, and by the help of the Persians I captured Egypt. I ordered this canal to be dug from the river Nile (Pirāva) which floweth in Egypt to the sea which goeth forth from Persia. This canal was dug even as I ordered."

It was not only in the west that a conciliatory policy was adopted towards seafaring people, for when Babylon fell before Cyrus in 538 B.C. there were, according to the cylinder of Cyrus, "rejoicings and festal shouts in the palaee of the Babylonian king²." The suicide of Cambyses, however, in 521 B.C. led to the usurpation of the kingdom by Gaumata, and the assassination of Gaumata, who had won popular favour by remitting taxes and abolishing conscription, encouraged the provinces, including Persia herself, to revolt against the Great King. Babylon, in particular, held out for more than two years, and when it fell, after a long siege, in 519 B.C., its fall was attended by a boisterous ruin. "Since the taking of the city," says Herodotus, "the Babylonians have been harshly treated, and ruined in fortune, so all the meaner sort, from want of a livelihood, prostitute their daughters³."

The effect of revenge and retribution has been minimized by Mr Kennedy, and, on the other hand, prominence has been given to a theory, which, because of its recurrence, deserves to be carefully examined:

"The decline of Babylon begins with Darius. The Babylonians hated him; they twice revolted against him, and were independent for years; and he chastised them. Xerxes wreaked his vengeance on them, and dared to plunder the sanctuary of Bel. And so from the commencement of the fifth century, the commercial tablets become scarce, the canals fall into disrepair, and dams impede the entrance of the Euphrates and the Tigris. Herodotus was a witness to the great and increasing poverty of the common people under Persian rule. From this time forward the decline of Babylon is continuous, and Bel and Nebo are no longer to avail. The Chaldaeans transferred their commerce to Gerrha, beyond the reach of the Great King's jealousy. In after days the foundation of

¹ E. A. Wallis Budge, A History of Egypt, p. 64, London (1902).

² P. M. Sykes, A History of Persia, Vol. L, p. 161, London (1915).

⁸ Herodotus, I., 196.

Seleucia drained what life was left, and by the days of Strabo Babylon had sunk to be a village and a name.

The Persian blight destroyed not only Babylon; it extended to Egypt, and the merchants of Yemen entered into the commercial inheritance of both¹."

Now, according to Diodorus Siculus, the Egyptians themselves regarded Darius as the sixth of the law-givers of Egypt, and deified him in his lifetime and even worshipped him on his death as an Egyptian king². Herodotus, moreover, whilst admitting the poverty of the Babylonians has also taken care to point out that the survival of the Babylonian race was due exclusively to the efforts of Darius³, but apart from this, what is the evidence of the historian Xenophon during the immortal retreat to Trebizond in the year 401 B.C.?

"When I cast my eyes around and beheld how spacious and beautiful a country the Persians were masters of, how they abounded in provisions, slaves, cattle, gold, and rich apparel; and, on the other hand, reflected on the situation of our men, who had no share of all these advantages...I was more afraid of peace than now I am of war⁴."

There were "large and populous" cities in Babylonia—like Carmande on the Euphrates⁵, Opis on the Physcus⁶, and Caenae on the Tigris ⁷—all thriving on an excellent system of irrigation:

"From thence they made, in two days' march, eight parasangs, and passed two canals, one upon a bridge, the other upon seven pontoons. These canals were derived from the Tigris; from them ditches were cut that ran into the country, the first broad, then narrower, which at last ended in small water-courses⁸."

Similarly, though the Greek historians of Alexander delight in attributing the weirs on the Tigris to the timidity of the Persians.

- ¹ J. Kennedy, Early Commerce of Babylon with India, J.R.A.S. (1898), p. 271.
 - ² Diodorus Siculus, The Historical Library, I., 195.
 - ⁸ See Herodotus, III., 159.
 - ⁴ Xenophon, Anabasis, Bk. III., Eng. tr. by E. Spelman, p. 75, London (1817).
 - ⁵ Idem, Bk. I., Eng. tr., p. 26.
 - ⁶ Idem, Bk. II., Eng. tr., p. 60. Opis was near modern Baghdad.
 - ⁷ Idem, Bk. 11., Eng. tr., p. 61.
 - ⁸ Idem, Bk. II., Eng. tr., p. 58.

"who were unskilled in maritime affairs1." it has now been shown by William Vincent that the weirs were not for obstructing the stream but "for keeping up the waters to inundate the contiguous level²." Tavernier mentions a dvke one hundred and twenty feet high in the fall, between Mosul and the Great Zab, and Niebuhr saw dykes at Lemboun on the Euphrates, and at Högknè, Eski Mosul, and Higré on the Tigris³—"the last of these in the very place where a mound had been demolished by Alexander, and all of them maintained for the purposes of navigation." But even more conclusive, perhaps, is the number of flourishing towns and harbours described by Nearchus (326-325 B.C.) on the Persian coast: in Carmania, for example, there were firstly, the villages of Sidodont, Tarsias, and Cataea; secondly, the town of Badis, a well cultivated place with a great store of vines and corn; thirdly, the town of Harmozia, opposite the modern island of Hurmuz, abounding in everything except olives; and finally the island-town of Oaracta, which produced plenty of vines, palm-trees, and corn, and contained ports, and was well inhabited4. Beyond Carmania was the imperial province of Pars or Persis, containing (i) the village of Ilas, (ii) the haven of Cicandrus, (iii) the inhabited island of pearl-fisheries, (iv) the haven of Ochus, (v) the town of Apostana,

- ¹ Arrian, *History of Alexander's Expedition*, Bk. VII., Ch. VII., tr. by Rooke, London (1814):
- "These weirs were put down by the Persians, who were unskilled in maritime affairs, to render the navigation of the Tigris so difficult as to hinder any enemy's fleet from invading them that way. However, Alexander looked upon them as the contrivance of cowards...and he ordered them to be entirely cleared away, and the river laid open."
- ² William Vincent, The Commerce and Navigation of the Ancients in the Indian Ocean, Vol. 1, p. 505, London (1807). Similarly, in Sāsānian times, "powerful dams—shadhrawān—with the necessary sluices had been erected at various places to enable the water thus dammed back to be led by numerous small canals to fields on a higher level." M. Streck, Encyclopaedia of Islām, article on Kārūn, p. 779 a.
 - ³ Niebuhr, Voyage en Arabie, Vol. II., p. 307, Amsterdam (1780).
 - ⁴ Arrian, Indian History, Ch. 32-37.

(vi) the many villages lying in the cup of a noted bay, (vii) the town of Gogana, (viii) the safe harbour near the mouth of the Sitacus, (ix) the well inhabited garden-town of Hieratis, with a canal navigable to seagoing craft, (x) the town of Taöcé on the Granis, (xi) the safe harbour at the mouth of the Ragonis, and (xii) the unsafe harbour at the mouth of the Brizana¹. "Thence the fleet entered upon the country of Susa...; huge posts or pieces of timber are fixed here and there...to guide mariners in their course, and prevent their falling in among the shallows²."

It is not possible, therefore, to accept the generalization of Mr Kennedy. The Persians did not love the sea, but they loved sea-power and tried "to create a direct communication between the seclusion of Persis and the commerce of the world³." Consequently, the Nile canal was constructed and the construction of this canal was supplemented by an exploration of the Indian Ocean—from the Gulf of Persia to the delta of the Indus, and thence to the apex of the Erythraean Sea.

"A great part of Asia," says Herodotus, "was explored under the direction of Darius. He, being desirous to know in what part the Indus (which is the second river that produces crocodiles) discharges itself into the sea, sent in ships, both those on whom he could rely to make a true report, and also Scylax of Carinda. Accordingly, they set out from the city of Caspatyrus and the country of Pactyice, and sailed down the river, towards the east and sunrise, to the sea; then sailing on the sea westward they arrived in the thirtieth month at that place (Suez) where the king of Egypt despatched the Phoenicians to sail round Libya. After these persons had sailed round, Darius subdued the Indians and frequented this sea.4."

It is noteworthy that Darius himself frequented the Persian Gulf, so that the inference—

"The Indian conquest led to the establishment of commercial relations with the natives, which issued in a regular trade, carried on by coasting-vessels between the mouths of the Indus and the Persian Gulf⁵"

- ¹ Arrian, Indian History, Ch. 38-39.
 ² Idem, Ch. 40-41.
- ³ Eduard Meyer, *Encyclopaedia Britannica*, article on Persia, Ancient History, Vol. xxI., p. 209 b.

 ⁴ Herodotus, IV., 44.
 - ⁵ G. Rawlinson, The Five Great Monarchies, Vol. III., p. 431, London (1879).

—which the modern historian draws from the Father of History seems to me perfectly legitimate. And indeed no other conclusion is possible on the evidence of Nearchus in the Gulf of Persia.

To pass now to the minutiae of Achaemenian sea-power, with the moral support of a hired fleet supplied by Phoenicia and the semi-Phoenician Cyprus¹, and with the material aid of Phanes. the Halicarnassian, who had filled sheep-skins with water and loaded them on to the backs of camels. Cambyses poured his troops into Egypt and conquered the country (527 B.C.). Thereafter, three separate expeditions were planned—against Carthage, Ammon, and Ethiopia. The last two proved abortive: the first was not even consummated. For the Phoenicians on whom depended the naval force refused to break the double bonds of oath and kinship merely to secure the approbation of Cambyses, and Cambyses himself, on the other hand, sccing that the submission of Phoenicia had been voluntary and that its retention was necessary for the retention of Egypt, was unwilling to resort to the employment of force. The time had not yet come when the Great King could scourge the sea² or decapitate seamen with impunity³.

Only by a slow process, therefore, did Achaemenian sea-power become Achaemenian in the Mcditerranean Sea. At first, the Persian element is mercly the Persian flag. Later, Persian officers are found sailing, surveying, and spying in the company of foreigners⁴. Later still, Persians have risen to the rank of admirals and have begun to conquer the islands in the Mediterranean Sea⁵. Eventually, the entire fleet is in the hands of Persian admirals⁶, and is stiffened by the *epibetae* or marines, drawn from the three races—the Persians, Medes, and Sacae⁷.

But to proceed. The attempt of Darius to control the nomads of Scythia led to a resumption of naval activity in the Mediterranean

¹ Cyprus was ethnically connected with Phoenicia and had therefore revolted from Egypt.

² Herodotus, vII., 35.

⁴ Idem, III., 135, 136.

⁶ Idem, VII., 97.

³ Idem, VIII., 90.

⁵ Idem, v., 26.

⁷ *Idem*, VII., 96, 184.

Sea. First of all, about fifteen Persian spies, who were put in charge of Democedes to report on the maritime tracts of Greece, procured a couple of Sidonian triremes and a large trading-vessel, and sailed as far as Crotona in Magna Graecia, and returned with written information. Thereupon, Ariaramnes, satrap of Cappadocia, crossed the Euxine with a small fleet of thirty penteconters and succeeded in capturing the brother of a Scythian chief. Finally, the Bosphorus was spanned by the Samian Mandrocles, and a fleet of six hundred sail was levied from the subject-races of Asia Minor to protect the passage of the Persian army.

And so Darius crossed over into Europe with his troops, whilst his fleet passed through the Cyanean isles, sailed up the river Ister, and laid down a bridge of boats at a distance of two days' course from the river's mouth. The invasion, however, proved sterile: Darius achieved nothing against the elusive Scyths.

But because the primary object of the expedition had failed the Persians in Europe did not despair of seeing an extension of Persia in Europe: Megabazus remained behind and conquered Thrace and Macedonia (514 B.C.); whilst Otanes, the successor of Megabazus, secured the naval aid of the Lesbians and reduced the islands of Lemnos and Imbros (505 B.C.). Persian influence in the Mediterranean was thus slowly increasing, and neither the abortive expedition of Megabates, who vaunted his rank as admiral over two hundred triremes by binding the captain of a Myndian ship through the lower rowlock of his vessel so that the head should be without and the body within³, nor the defection of Aristagoras, who raided Sardis, the capital of Asia Minor, with five Eretrian and twenty Athenian ships, nor yet the Ionic Revolt and the defeat of the Perso-Phoenician fleet off Cyprus, could definitely cripple the power of the Great King. Cyprus was recovered within a year; the Carians, the Hellespontines, and the Aeolians were subdued: the cities of Ionia fell; and in spite of the three hundred and fifty-

¹ Herodotus, III., 135-138.

² Ctesias, Exc. Pers., para. 16.

³ Herodotus, v., 32–33.

three triremes of the Ionians, Miletus was almost annihilated. The strength of the rebel fleet deterred the Persian generals from giving battle "because they were not masters at sea1"; on the other hand, the Samians argued that "if they should overcome Darius with his present fleet (of six hundred sail) another, five times as large, would come against them²." And so the Samians returned to their allegiance, followed by the Lesbians—and the Ionic Revolt was over (494 B.C.).

"Darius was now free to turn from the agents of the revolt to the accomplices"—principally Athens and Eretria. The fire of revenge smouldered in the heart of the Great King, where, like the fire in a Magian temple, it was nourished night and day and never allowed to die3. And so the land army was mobilized and sent to the Hellespont en route to Attica, whilst Mardonius, the son-in-law of Darius, assumed the supreme command over both the army and navy, and proceeded by sea from Cilicia to Ionia. Thence, pacifying the Ionian towns by giving them a form of self-government, Mardonius sailed to the Hellespont and transported the troops into the enemy's country. The Thasians and the Macedonians, who had regained independence during the Ionic Revolt, were easily subdued, but the drawn battle with the Brygi, and the loss of three hundred vessels and twenty thousand lives in a storm off the promontory of Athos4, so damped the ardour of Mardonius that he withdrew his forces and returned to Asia (493 B.C.).

But Darius was superior to his misfortunes and by 490 R.C. a new fleet of six hundred sail had assembled in Cilicia to carry out the old purpose. The supreme command was taken from Mardonius and given to Datis and Artaphernes; the army was stiffened by cavalry—a Persian speciality; and to facilitate the adoption of the direct sea-route, a number of horse-transports were added to the triremes. And for a while all went well: Delos, Carystus, Tamynae,

¹ Herodotus, vi., 9.
² Idem, vi., 16.

³ At each meal, a servant called out to Darius: "Sire, remember the Athenians."

⁴ Herodotus, v., 105.

Choerea, and Aegilia were taken piecemeal, and the independence and even the existence of Eretria was annihilated.

Meanwhile, Hippias, son of Pisistratus, had joined the Persians and suggested the suitability of Marathon for a cavalry engagement. The advice was sound; the result, disastrous. The Persians lost at Marathon barely one-tenth of their strength and their strength was ten times that of the enemy, but they had lost faith in themselves and their one desire was to reach the ships and be safe at sea. Seven galleys were lost in the flight; the others made for Phaleron hoping to get the Athenians in the rear. But the Athenians had detected the move and guarded Phaleron, and Datis who only contemplated an entry by the backdoor sailed away to Asia Minor.

"When the news of the battle fought at Marathon reached Darius, son of Hystaspes," says Herodotus, "he then became much more incensed and was still more eager to prosecute the war against Greece." But whilst the preparations were still incomplete Egypt revolted under Khabbisha (486 B.C.) and death stayed the hand that was to whip the Athenians into servitude (485 B.C.).

Nevertheless, the imperial policy of Darius lived on, and within two years after the reconquest of Egypt and the fall of Babylon (483 B.C.)¹ all Persia was in Europe. For "Xerxes, son of Darius, led five million two hundred and eighty-three thousand two hundred and twenty men to Sepias and Thermopylae...but of so many myriads of men, not one of them, for beauty and stature, was more entitled than Xerxes himself to possess this power²."

To insure and expedite the transport of the army, Phoenician and Egyptian engineers had been asked to bridge the Hellespont from Abydos to Sestos. After an unsuccessful attempt for which the engineers were beheaded, and the sea scourged, branded, and fettered³, a double bridge of triremes and penteconters, united by shore cables of exceptional strength, and overlain by a platform of tree-trunks, earth, and brushwood, was stretched across the

¹ Babylon never recovered from the attack of Xerxes, and became "a hissing and a name." This applies only to the town, not the province.

² Herodotus VII., 186–187.

³ Idem, VII., 34.

sea¹—"and the highroad of Xerxes, as Aeschylus calls it, was complete."

Nor were the interests of the navy ignored: a couple of Persian engineers, Bubarcs, son of Megabazus, and Artachaeus, son of Artaeus, converted the promontory of Athos, where the fleet of Mardonius had suffered shipwreck, into a canal "of such a width that two triremes might pass through rowed abreast²." "No portion of the Greck coast," says Prof. Rawlinson, "is so dangerous as that about Athos: Greek boatmen, even at the present day, refuse to attempt the circumnavigation.... The construction of a canal in such a locality was certainly better than the formation of a shipgroove or dioleus—the substitute proposed by Herodotus—not to mention that it is doubtful whether at the time that this cutting was made ship-grooves were known even to the Greeks³."

Meanwhile the fleet of Xerxes, having supervised the crossing of the army, set sail and arrived at Doriscus, where it was reviewed by the king from aboard a Sidonian vessel. There were 1207 triremes, of which the Phoenician contribution was 300, the Egyptian 200, the Cyprian 150, the Cilician, the Ionian, and the Hellespontine 100 each, the Carian 70, the Acolian 60, the Lycian 50, the Pamphylian and the Dorian 30 each, and that of the Islanders 17. Each trireme had a native crew of 200 men, and a Persian crew of 30 marines⁴. There were, morcover, 3000 triëconters, penteconters, light-boats, and long horse-transports; and each of these had a crew of about eighty men. Altogether, therefore, Xerxes had 4207 ships and 517,610 men at Doriscus, but these numbers were increased afterwards by a Thracian reinforcement of 120 triremes and 24,000 men. Four admirals were in charge of the fleet, and all

¹ On the completion of the work, Xerxes threw a Persian sword and a golden cup and bowl into the sea. Was it an offering to the sun, or the effect of remorse?

² Herodotus, VII., 24.

³ G. Rawlinson, The Five Great Monarchies, Vol. III., pp. 450-451, London (1879).

⁴ Herodotus, VII., 96 et 184.

of them were Persian: Achaemenes, the brother of Xerxes, commanded the Egyptian ships; Ariabignes, son of Darius and Gobryas, and, therefore, a half-brother of Xerxes, commanded the Ionian and Carian ships; whilst, of the remaining vessels, some were in the control of Prexaspes, son of Aspathines, the others of Megabazus, son of Megabates¹. The vice-admirals, mentioned by Herodotus, are foreigners; whilst the captains of the Grand Fleet are not mentioned either severally or collectively.

From Doriscus the fleet accompanied the land army to Acanthus where it received orders to proceed to Therma. Accordingly, it set sail, passed through the canal of Athos, and reached its destination augmented by the hundred and twenty ships of the Thracians. Xerxes, upon his arrival, went on board a Sidonian vessel and explored the mouth of the Peneus, for what were Athens and Sparta to him but mere items in a tourist's itinerary?

On leaving Therma a squadron of ten ships advanced to Scyathus, where it seized three Grecian ships that were keeping a look-out. But Xerxes was soon to discover the fickleness of fortune: the Persian fleet, whilst riding at anchor between the city of Casthanaea and the coast of Sepias, was caught in a violent storm and shorn of about four hundred triremes and innumerable transports and provision-ships "so that this wreck proved a source of great profit to Aminocles, a Magnesian, who possessed land about Sepias²." And the Greeks poured out libations to Poseidon, whom they surnamed the Deliverer, and moved up their ships to Artemisium, "hoping that there would be only some few ships to oppose them."

But the bulk of the Persian fleet was there, and in the best of spirits. And in order to prevent the escape of the Greeks who had fallen into their hands the Persians detached a couple of hundred ships to sail round Euboea and seal up the straits of Euripos. But as the Persian squadron was approaching the Coela of Euboea, the rains descended and the floods came and the winds blew and the squadron was wrecked: "all this was done by the deity that

¹ Herodotus, VII., 97.

² Idem, VII., 188-191.

the Persian might be brought to an equality with the Grecian, or, at least, not be greatly superior."

Meanwhile, after an indecisive engagement in which they lost thirty vessels, the Persians at Artemisium took the offensive and crippled one-half of the Athenian fleet. Then came the news of the forcing of Thermopylae, and the Greeks fell back. Darkness and Persian indolence lent them aid; and by the break of day even the damaged ships of the Athenians were gone.

Both the land and the sea-route now lay open to the Persians. Xerxes marched to Athens and burnt its shrines in revenge for the destruction of Sardis; the fleet sailed down the Euripos and rounding Sunium came to anchor in the bay of Phaleron.

In the neighbourhood lay the Grecian fleet in the haven of Salamis. Eurybiades was in command and it was the general opinion of the officers of the confederate fleet that they should sail to the Isthmus and fight before Peloponnesus "for if they should be conquered by sea, whilst they were at Salamis, they would be besieged in the island, but if at the Isthmus they might escape to their own cities." The fear of Persian sea-power would have indeed subdued the judgment of Eurybiades had not Themistocles threatened to abandon Greece, if Greece should abandon Salamis. And the threat was grim, for out of a total of three hundred and eighty ships, Themistocles was in command of two hundred.

Meanwhile, Xerxes had almost recuperated his naval loss, for Aeschylus states that "a thousand ships (for well I knew the number) the Persian flag obeyed: two hundred more and seven o'erspread the seas³." "As at Artemisium the only fear felt was lest the Greeks should fly, and in that way escape chastisement⁴." Two hundred ships were therefore ordered to surround all the passages,

¹ Herodotus, VIII., 49.

² Plutarch, Lives: Life of Themistocles, p. 113, Langhorne's tr. (London).

³ Aeschylus, *Persae*, II., 343-345.

⁴ G. Rawlinson, The Five Great Monarchies, Vol. III., p. 463, London (1879).

and to enclose the islands¹; whilst Xerxes climbed a rocky cliff at break of day to watch the sea-fight with his own eyes (480 B.C.).

"The Persian fleet was drawn up in three lines and stimulated by the presence of the king assumed the offensive. The Grecian vessels were of small draught and receded to the shore; the Persian ships were heavy and unwieldy, and in giving pursuit, began to grind in the shallows. As the day advanced the sea-breeze produced a high surf in the channel." The triple line impeded retreat; the narrow space promoted collision: Themistocles had shown his wisdom both in selecting the place for his ships and the time for his action. By evening the Persian fleet was a wreck and a debris; five hundred vessels had gone down and with them the admiral of the fleet and the brother of the Great King:

"Ariamaenes, the Persian admiral, a man of distinguished honour, and by far the bravest of the king's brothers, directed his manoeuvres chiefly against Themistocles. His ship was very tall, and from thence he threw darts and shot forth arrows as from a castle. But Aminias the Decclean, and Sosiscles the Pedian, who sailed in one bottom, bore down upon him with their prow, and both ships meeting they were fastened together by means of their brazen beaks; when Ariamaenes, boarding their galley, they received him with their pikes, and pushed him into the sea. Artemisia knew the body amongst others that were floating with the wreck, and carried it to Xerxes²."

The defeat of Salamis made Xerxes tremble for his life. Laying therefore the flattering unction to his soul that he had gained the immediate object of the expedition, namely, the conquest of Athens, and that the ultimate task of subduing Greece could be left to a satrap, he made Mardonius the generalissimo of 360,000 troops, and with the rest of his army retreated towards the Hellespont. As before, Xerxes took the land-route, whilst the remnants of the Persian fleet went ahead for protecting the bridge. The effort, however, proved futile. For though the advice of Themistocles to conquer Asia in Europe by breaking the bridge³ was overruled by

¹ Plutarch, Lives: Life of Themistocles, p. 114.

² Plutarch, Lives: Life of Themistocles, p. 116, Langhorne's tr.

⁸ Plutarch, Lives: Life of Aristides, p. 87, Langhorne's tr.

Aristides, who desired a riddance of cvil by facilitating the flight of the Great King¹, nevertheless, the sea, which had been branded and fettered and scourged, had not been equally forgiving. A storm had destroyed the labour of the preceding year and the army had to cross over in ships².

There is no doubt that Mardonius felt himself equal to the task he had undertaken. "At sea in your wooden towers," wrote he to the Greeks, "you have defeated landsmen unpractised at the oar; but there are still the wide plains of Thessaly and the fields of Boeotia, where both horse and foot may fight to the best advantage³." But Plataea was to be the gravcyard of Mardonius and his horse and foot: the disaster of Salamis was to remain irretrievable.

Meanwhile, the remnants of the Grand Fleet had evaded a Grecian squadron off Calami in the Ionian territory, and obtained the shelter of the land forces at Mycale⁴. But if the Persians could draw their ships ashore and fence them in with a rampart of stone and wood, the Greeks also could fight a naval battle on land. For they disembarked and met the Persian troops and beat them—and the ships became the spoils of war to be ruthlessly fired.

The Battle of Mycale completed the work of Salamis, and Persia was no longer able to retain her territory in Europe⁵, or even on the Asiatic seaboard, from Ionia to Pamphylia (479–466 B.C.). And then, in 466 B.C., came a repetition of Mycale, for Tithraustes, the Persian admiral, whilst planning to overrun the coast of Asia Minor with about six hundred ships and a large army, found himself confronted, not with the eighty ships of his Phoenician allies, but with the two hundred galleys of the Athenian Cimon. Seized with panic, Tithraustes converted his navy into a river-flotilla, and pushed up the Eurymedon and finally sought safety in flight. Two hundred of his vessels fell into the hands of the enemy—"a certain

¹ Plutarch, Lives: Life of Aristides, p. 87, Langhorne's tr.

² Herodotus, VIII., 117.

⁸ Plutarch, *Lives*: Life of Aristides, p. 87, Langhorne's tr.

⁴ Herodotus, IX., 96.

⁵ With the exception of the town of Doriscus.

proof," says Plutarch, "that the Persian fleet was very numerous." The Persian army now came to the rescue and was almost pulverized, whilst a similar fate befell the Phoenician squadron off Cyprus, so that by the time of Xerxes' assassination in 465 B.C. the Persian navy had acquired a negative value—it was nowhere to be seen but on land, and on land it was nothing but an encumbrance to the army.

Nevertheless, it must be stated to the credit of Persia that Ariamaenes or Ariabignes sank with his ships at Salamis, that Boges or Butes, the governor of Eion, burnt himself with his colleagues on the funeral pyre¹, and that "none were able to drive out Mascames from Doriscus though many made the attempt²." And it was not a vain boast of the Great King that he was master of the sea³, for he narrowed and enlarged its domains as he willed: he had made the strait of Hellespont an isthmus, and the isthmus of Athos a strait.

Nor is this the final word on the naval ambitions of Xerxes, for by granting a conditional pardon to Sataspes, son of Teaspes, of the Royal House, who had been convicted of the capital offence of rape, Xerxes made the circumnavigation of Africa literally a problem of life and death. The royal culprit took an Egyptian vessel, sailed through the Mediterranean to the Atlantic, doubled Cape Solois of Libya, and steered to the south, but "after traversing a vast extent of sea in many months, when he found that he had still more to pass, he turned back4"—willing to face the inexorable Xerxes rather than the illimitable sea.

Where the greater malady is fix'd The lesser is scarce felt. Thou'ldst shun a bear But if thy flight lay toward the raging sea Thou'ldst meet the bear i' the mouth.

Sataspes pleaded the ingenious defence—Actus Dei nemini nocet: he had sailed past a nation of elusive pygmies, clad in garments

- ¹ Herodotus, VII., 107 et Plutarch, Lives: Life of Cimon.
- ² Idem, VII., 106 et Plutarch, Lives: Life of Cimon.
- ⁸ Herodotus, VII., 34. ⁴ Idem, IV., 43.

of palm leaves, but could not sail any farther, because his ship was stopped. But Xerxes realized that Sataspes could argue better than perform, and violate better than fulfil, and enforced, accordingly, the sentence of death.

And so concluded the first phase of Achaemenian history. Hereafter, the dream of world-imperialism was not to be realized by pitting Persia against Greece but by setting the Grecian states against one another. And as a corollary to this new policy of divide et impera, Greek captains were to assist the satraps as the de facto leaders of the armies of Persia, and Greek mercenaries were to displace the Immortals as the corps d'élite of the Great King.

• Meanwhile, the collapse of the Persian navy reacted on the loyalty of Egypt: the Persian troops were defeated near Papremis in the Delta, and the satrap Achaemenes was slain (459 B.C.). Thereupon, the rebel leaders, Inaros and Amyrtaeus I, lured Athens with the prospects of a coup de grace, and an Athenian fleet of two hundred sail made itself master of the Nile and of two-thirds of Memphis¹. Artaxerxes, the son and successor of Xerxes, stooped to bribery; but the attempt was premature and Sparta rejected the darics offered for an invasion of Attica.

Persia now took the field against Egypt. A battle was fought; the Egyptians were beaten; and the Athenian fleet retired to Prosopitis, an island in the Nile. For eighteen months the siege went on, till Megabyzus, by turning the course of the stream, forced the Athenians, as it were, to set fire to their own ships². Then came a tardy reinforcement of fifty sail, which was routed by the Phoenicians with heavy loss, and with the execution of Inaros and the flight of his companion, the revolt was over (455 B.C.).

But Athens remembered the fall of Prosopitis, and gathered a fleet, and despatched Cimon with two hundred ships to wrest Cyprus from the Persians (449 B.C.). The task was heavy, for Artabazus, the Persian admiral, had three hundred ships at Cyprus³, whilst a

¹ Thucydides, I., 104, tr. B. Jowett, Oxford (1900). ² Idem, I., 109.

⁸ Diodorus Siculus, The Historical Library, Bk. XII., Ch. L, tr. G. Booth, London (1814).

thousand times as many men lay encamped in Cilicia in charge of Megabyzus. Moreover, sixty of the Athenian ships had to be detached for service in Egypt, where Amyrtaeus I was hiding¹, and a substitute had to be found for Cimon who had died before he could proceed to the blockade of Citium². Nevertheless, Citium and Malus were forced, and of the Phoenician and Cilician ships a hundred were taken, and the rest, pursued almost to the camp of Megabyzus³, were beaten on land.

Athens now settled down before the walls of Salamis, the capital of Cyprus, and though no attempt was made by Persia to raise the siege—"for the Athenians were masters at sea"—the town proved impregnable. Artaxerxes, who was anxious to retain Cyprus for the defence of Egypt, saw the war-weariness of the besieging army, and concluded the "Peace of Callias" on the following conditions⁴:

- (i) the Greek cities in Asia to receive freedom and self-government;
- (ii) Persian commanders not to come within three days' journey of the sea;
- (iii) Persian men-of-war not to sail beyond Phaselis in the Levant or beyond the Cyanean isles in the Euxine;
- (iv) Athens to relinquish Cyprus, and to recall her squadron from Egypt;
- (v) and Athens not to invade any of the provinces of Artaxerxes.

The "Peace of Callias" lasted till 415 B.C., when the collapse of the Athenian expedition against Sicily disturbed the balance of power in favour of Persia, and induced Darius Nothus, who had succeeded Artaxerxes as the Great King, to order a renewal of tribute from the Grecian colonies in Asia Minor. The task was assigned to the satraps, Tissaphernes and Pharnabazus, who economized labour by entering into an offensive and defensive alliance with Sparta: the Great King was "to be sovereign over all the territory and all the cities which were in his possession then, or

¹ Thucydides, I., 112.

² Idem; but according to Diodorus Siculus (XIL, I.) Cimon died after the "Peace of Callias."

³ Diodorus Siculus, The Historical Library, Bk. XII., Ch. I.

⁴ Idem.

had been in the possession of his forefathers before¹," and for this concession, Sparta and Persia were to be the common enemies of Athens.

The satraps, however, were not aiming at reciprocity. For, as Tissaphernes himself admitted to the younger Cyrus, "all I have hitherto done was in pure compliance with the advice of Alcibiades, studying only that no party of the Grecians should grow too strong, but that all might be kept in weakness through their own embroilments²." Accordingly, when Sparta pressed for aid against Athens, Tissaphernes brought his reinforcement of one hundred and forty-seven Phoenician galleys, but only as far as Aspendus and no farther³. Similarly, when Mindarus, the Spartan admiral, was awaiting at Miletus the three hundred Phoenician galleys of Pharnabazus⁴, there only came the tardy information that the Phoenicians had returned to Phoenicia.

But whilst the satraps were economizing, the younger Cyrus, who coveted the Persian crown, was offering the Spartan ambassadors at Sardis both five hundred talents in specie and his own private money and even the very throne on which he was sitting⁵. And so within a couple of years the power of Athens was broken: in September 405 B.C. the Athenian fleet was destroyed at Aegospotami, and in April 404 the Long Walls and the fortifications of the Peiraeus were dismantled.

Meanwhile, Egypt had revolted under Amyrtaeus II, a grandson of Amyrtaeus I, and the identity of interests had prompted Cyrus to supply five and twenty ships to the Egyptian admiral, Tamos, who had been besieging Miletus against Tissaphernes⁶ (405 B.C.).

¹ Thucydides, VIII., 18, tr. B. Jowett, Oxford (1900).

² Xenophon, *Hellenica*, Bk. I., tr. by the 'Translator of Thucydides,' p. 19, London (1816).

⁸ Thucydides, VIII., 87.

⁴ Diodorus Siculus, The Historical Library, Bk. XIII., Ch. IV.

⁵ Xenophon, *Hellenica*, Bk. I., tr. by the 'Translator of Thucydides,' p. 18, London (1816).

⁶ Xenophon, Anabasis, Bk. I., tr. by E. Spelman, p. 21, London (1817).

For his treason Cyrus was recalled to Susa, where, finding that his arrival synchronized with the accession of his brother Artaxerxes Mnemon to the throne of Persia, he attempted fratricide and was sentenced to death.

But Cyrus was not reserved for the gallows: the intercession of the Queen-Mother obtained him an unconditional pardon, and so, returning to Asia Minor, he applied to Egypt and Sparta for the price of his friendship, and raised eventually a native army of a hundred thousand men and a Grecian corps of thirteen thousand mercenaries. Moreover, "five and thirty ships, with Pythagoras, a Lacedaemonian, at the head, sailed from Peloponnesus, and came to Cyrus, being conducted from Ephesus by Tamos, an Egyptian, who carried with him five and twenty other ships belonging to Cyrus¹." The expedition, however, was not destined to succeed: Cyrus fell in the Battle of Cunaxa (401 B.C.); the Asiatics returned to their allegiance; and the Greeks cut their way through to Trebizond, in the face of all the armies of the Great King.

The hostility of Sparta and the impotence of Persia could no longer be disguised and, to err on the safe side, Tissaphernes drew up a programme for the construction of three hundred Phoenician galleys², with which Sparta was to be deprived of the empire of the sea³. The news leaked out; Agesilaus, king of Sparta, crossed over to Asia Minor (399 B.C.); and the daries were shipped to Europe for circulation at Argos, Thebes, Corinth⁴, and probably elsewhere. And after a contest of six years the daries triumphed: Agesilaus was driven out of the country "by ten thousand of the Great King's archers" (for the Persian money bore the impression of an archer); the Spartan fleet of Pisander was beaten near Cnidus (394 B.C.) by the Athenian and Phoenician ships of Conon and

¹ Xenophon, Anabasis, Bk. 1., tr. by E. Spelman, p. 21, London (1817).

² Xenophon, *Hellenica*, Bk. III., tr. by the 'Translator of Thucydides,' p. 79, London (1816).

³ Plutarch, *Lives*: Life of Agesilaus, Langhorne tr., Gr. Section, Vol. 1., p. 283.

⁴ Xenophon, Hellenica, Bk. III., Eng. tr., p. 86.

Pharnabazus¹; and the insular possessions of Sparta were taken. Pharnabazus, indeed, was even prepared "to go to Laconia and revenge himself to the utmost of his power," and within a year after Cnidus actually ravaged the Peloponnesian coast². Conon, of course, was present throughout, and for his services received the gold with which the Long Walls of the Peiraeus were rebuilt.

Sparta now resumed the rôle of a friend, and borrowed the ships of which Tiribazus was master, and stopped the navigation of vessels from Pontus to Athens³ (387 B.C.). The policy of the Great King had completely succeeded: he had fought with Sparta against Athens, and with Athens against Sparta, and was reopening the cycle. "Hence it was," says Xenophon, "that when Tiribazus issued out the notification, that all states, who were desirous of a peace on the terms which the King prescribes, should assemble together, they were all soon assembled. And now in the presence of them all, Tiribazus, having first showed the king's signet, read aloud the contents of his mandate, as followeth:

"Artaxerxes the king thinks it just that the cities in Asia and the two isles of Clazomenae and Cyprus should be his own; but that all the rest of the Grecian cities, both small and great, should be left free and independent, except Lemnos, Imbros, and Seiros; these, as formerly, to continue in subjection to the Athenians. And whatever people refuseth this peace, I myself, with such as receive it, shall make war against that people, both by land and sea, both with ships and with money'."

Greece accepted the "Peace of Antalcidas" without a murmur but Evagoras of Cyprus, who was in the fifth year of a successful revolt and had an army of six thousand men and a fleet of a hundred and thirty sail, exclusive of fifty Egyptian and twenty Tyrian vessels⁵, was hardly the person to listen and obey. His fleet

¹ Xenophon, *Hellenica*, Bk. Iv., Eng. tr., p. 103. Diodorus (XIV., IX.) says that the Spartans had 85 ships and the Persians 90.

² Idem, Bk. IV., Eng. tr., p. 121.

³ Xenophon, *Hellenica*, Bk. v., tr. by the 'Translator of Thucydides,' p. 134, London (1816).

⁴ Idem, p. 135.

⁵ Diodorus Siculus, The Historical Library, Bk. xv., Ch. 1.

was scattered by the three hundred galleys of Tiribazus and Gaios; his island was overrun by the three hundred thousand troops of Orontes; his capital was assailed for six years until its fall was imminent. But when the time came for the coup de grace Orontes and Tiribazus had fallen out amongst themselves, and the pretender was told that on payment of an annual subsidy he could retain both his capital and his title of king.

Meanwhile, by fear and favour, Persia had recovered the seaboard of Asia Minor, and there only remained the subjugation of Egypt. According to Diodorus, when the king's forces came to Acre in Phoenicia there were two hundred thousand Persians under Pharnabazus and twenty thousand Greeks under Iphicrates, whose services had been obtained from Athens. The navy comprised (i) three hundred galleys of three tiers of oars on a bank, (ii) two hundred galleys of thirty oars a-piece, and (iii) a vast number of transport-ships¹. But all the troops and ships of Persia had nothing more than a spectacular effect, for the seven mouths of the Nile had been blocked, and though a force was secretly landed, Pharnabazus hesitated in accepting the advice of Iphicrates to march on Memphis before the Egyptian army could mobilize. And whilst he delayed the Nile rose and flooded the country—and Iphicrates and Pharnabazus went their ways for they had parted² (374 B.C.).

The failure of the Egyptian expedition brought on a general revolt of the satraps, and by 362 B.C. all Asia Minor had seceded from Persia. Sparta abetted the insurrection, whilst Tachos, king of Egypt, sent a fleet of two hundred ships under the Athenian Chabrias, and an army of ten thousand Greek mercenaries under the Spartan Agesilaus, for an invasion of Syria. But once again the daries proved invincible, and whilst the satraps were being crushed

¹ Diodorus Siculus, The Historical Library, Bk. xv., Ch. 1.

² "Iphicrates, knowing the readiness of the tongue of Pharnabazus and the slowness of his actions, one day accosted him in this manner—That he wondered that one who was so voluble in his speech should be so slow in his actions. To which Pharnabazus answered—That he was master of his words, but the king, of his actions."

at home, there arose a civil war in Egypt to end the foreign war of Tachos.

Artaxerxes Mnemon died in 359 B.C. in the ninety-fourth year of his life and the forty-sixth year of his reign. It is the tendency of modern historians to make Persia responsible for the failures of Artaxerxes, and to credit the achievements of Artaxerxes to Greece¹. But it is unnecessary to withhold from Persia what Greece herself has conceded: Pharnabazus was present as an admiral in the Battle of Cnidus, Tiribazus and Gaios led the attack on Cyprus, and Pharnabazus cooperated with Iphicrates in the attack on Egypt. Finally, though the royal coinage² is usually devoid of marine representations, there is at least one gold stater, now preserved in the De Luynes collection, which bears on the obverse the royal Persian archer, as on the darics, and on the reverse, a prow of a galley³. It was probably minted at Cyzicus in honour of the king who had enforced the "Peace of Antalcidas" and recovered the control of the sea.

Artaxerxes Ochus now succeeded to the throne of Persia and immediately after massacring the royal family turned his attention towards Egypt. The expedition failed; Cyprus and Phoenicia revolted; and nothing was left, apparently, but the unconquerable will. Entrusting the Cyprian war to Idrieus, prince of Caria, Artaxerxes raised a force of thirty thousand horse and three hundred thousand foot, and marched through Syria, and encamped near Sidon. Paralysed with fear the Sidonians fired the town and burnt themselves to ashes, and, incidentally, released the king from a Phoenician war.

Artaxerxes now continued his march on Egypt: Cyprus had been reduced by Idrieus, and ten thousand mercenaries had arrived from Greece. The army was divided into three corps and each corps was placed under the dual command of a Greek and a

¹ Vide Eduard Meyer, Ency. Brit., Vol. XXI., p. 212 a, Cambridge (1911), et G. Rawlinson, The Five Great Monarchies, Vol. III., p. 480, London (1879).

² In contradistinction to the coins issued by satraps or subordinate kings.

³ Barclay V. Head, The Coinage of Lydia and Persia, p. 51, London (1877).

Persian: the Greek commanders were Lacrates, Nicostratus, and Mentor; the Persian commanders, Rosaces, Aristazanes, and Bagaios. The last two were also admirals—the former over "four score galleys," the latter over "a considerable navy"—for Persia led three hundred galleys against Egypt, besides six hundred ships of burden and transport-ships.

Meanwhile, Nectanebo, king of Egypt, was laughing the Persian power to scorn: his country was fortified; his army was large—about eighty thousand natives and twenty thousand Greeks; and his navy was specially equipped for service on the Nile. But a single reverse changed the overweening confidence to temerity: Nectanebo retired to Memphis en route to Ethiopia, and Egypt was in the hands of the enemy.

The reconquest of Egypt was the last triumph of the Achaemenian empire. Bagaios was given unlimited powers, and Mentor, the satrapy of the Asiatic seaboard; and for a time the many states became one under the Great King (343-338 B.C.). And then, on a sudden, the wide arch of the ranged empire fell, and all was over.

It is a remarkable fact that though Persia "by virtue of her shipping held the sovereignty of the sea1" she made no effort to prevent Alexander from crossing the Hellespont. The first naval encounter was at Miletus (334 B.C.), and even at Miletus, Memnon, the brother of Mentor, displayed more the strength of the Persian fleet than its utility, for "he sailed all day long in view of the Grecians, hoping by that means to dare them to an engagement at sea." Alexander, however, was not prepared "to fight a fleet so numerous as the Persian, or to engage the expert Cyprians and Phoenicians, or to try the skill and valour of the Macedonians on so unstable an element²."

Thereupon, Memnon formed the bold design of transferring the war into the enemy's country and had taken Antissa, Methymna,

¹ Arrian, History of Alexander's Expedition, Bk. I., Ch. XIX., tr. by Rooke, London (1814).

² Idem.

Pyrrha, Erissa, Mitylene, Lesbos, and even the Cyclade isles¹, when he sickened and died, and, with him, the last hope of Darius Codomannus, the last of the Great Kings. Such, at any rate, is the version of Diodorus; but, on the other hand, Arrian credits Autophradates and Pharnabazus with the reduction of Mitylene, where Memnon had died before the fall of the town². It appears also from Arrian's account that the two Persian satraps did not abandon Memnon's plan of invading Euboea, for, at Siphnus, King Agis of Sparta interviewed them and "required money for the use of the war, and as many sea and land forces as they could spare to be sent into Peloponnesus³." Eventually, Agis received ten ships and thirty talents of silver, and it looked as though Persia might still be saved, for said Alexander to his troops at Tyre:

"I can by no means deem it safe to undertake an expedition into Egypt, whilst the Persians have the sovereignty of the sea; nor to continue our pursuit of Darius, whilst Tyre remains unsubdued, and our enemies have Egypt and Cyprus in their possession. This I hold dangerous—lest if they should regain their seaports, and by the help of their fleet transfer the war into Greece."

But Autophradates and Pharnabazus lacked initiative and the paralysis of the defeat of Issus (333 B.C.) spread to the navy, which kept at sea merely because it was less dangerous there than on land. And since the Persian navy was not built by Persia, the squadrons of Sidon, Aradus, and Byblus descrted the Persian cause on hearing that Alexander was master of their respective cities; and Cyprus followed soon after. The fall of Tyre (332 B.C.) completed the process, and hereafter, with the solitary exception of Magaios, the son of Pharnuchis, who was the captain of a trireme in the fleet of Nearchus, there is no trace of Achaemenian Persia on the sea—the unstable element had allied itself with Alexander.

¹ Diodorus Siculus, The Historical Library, Bk. XVII., Ch. III.

² Arrian, History of Alexander's Expedition, Bk. IL., Ch. L.

³ Idem, Bk. II., Ch. XIII. ⁴ Idem, Bk. II., Ch. XVII.

⁵ Arrian, Indian History, Ch. 18.

TRADE-CONDITIONS IN THE EAST BEFORE THE RISE OF SĀSĀNIAN PERSIA

TRADE-CONDITIONS IN THE EAST BEFORE THE RISE OF SĀSĀNIAN PERSIA

"There was a man," says Agatharchides, "famous for his valour and his wealth, by name Erythras, a Persian by birth, son of Myozaeus. His home was by the sea, facing toward islands which are not now desert, but were so at the time of the empire of the Medes, when Erythras lived. In the winter-time he used to go to Pasargadae, making the journey at his own cost, and he indulged in these changes of scene, now for profit, and now for some pleasure of his own life. On a time the lions charged into a large flock of his mares, and some were slain; while the rest, unharmed but terror-stricken at what they had seen, fled to the sea. A strong wind was blowing from the land, and as they plunged into the waves in their terror, they were carried beyond their footing: and their fear continuing, they swam through the sea and came out on the shore of the land opposite. With them went one of the herdsmen, a youth of marked bravery, who thus reached the shore by clinging to the shoulders of a mare. Now Erythras looked for his mares, and not seeing them, first put together a raft of small size, but secure in the strength of its building; and happening on a favourable wind, he pushed off into the strait, across which he was swiftly carried by the waves, and so found his mares and their keeper also. And then. being pleased with the island, he built a stronghold at a place well chosen by the shore, and brought hither from the mainland opposite such as were dissatisfied with their life there, and subsequently settled all the other uninhabited islands, with a numerous population; and such was the glory they ascribed to him, because of these his deeds, that even down to our own time they have called that sea, infinite in extent, Erythraean. And so, for the reason here set forth, it is to be well distinguished (for to say Erythra thalatta, Sea of Erythras, is a very different thing from Thalatta Erythra, Red Sea); for the one commemorates the most illustrious man of that sea, while the other refers to the colour of the water. Now the one explanation of the name, as due to the colour, is false (for the sea is not red), but the other, ascribing it to the man who ruled there, is the true one, as the Persian story testifies¹."

The story, however, is more Persianized than Persian. For just as the Persian Gulf derives its name, not from the extinct empires of antiquity bordering on its shores, but from the youngest

¹ Agatharchides quoted by Schoff, in his edition of *The Periplus of the Erythraean Sea*, pp. 50-51 (1912).

surviving empire of Persia, so the Ervthraean story is a Persian story merely because it has been preserved by the Persians. "Thousands of years before the emergence of the Greeks from savagery, or before the exploits of the Phoenicians in the Mediterranean and Atlantic, human culture and commerce had centred in the countries bordering on the Persian Gulf, and the peoples of that region, the various Arab tribes, and more especially those ancestors of the Phoenicians, the mysterious Red Men, were the active carriers or intermediaries1." Then as time went on, the Red Men left their homes in Elam, and settled in the islands of Bahrain², and from there they spread along South Arabia, and the shores of the Red Sea-making the green one Red. How long they lived and ruled in South Arabia is uncertain but it was apparently in 1800 B.C. that they were driven out by the descendants of Joktan, the Arabic Qaḥtan. "And Hazarmaveth came and governed and gave his name to the kingdom of Hadramawt, while his brother Jerab, the Arabic Yarub, was the grandfather of Saba, the founder of the great Sabaean kingdom, and builder of the royal city of Marib or Seba in South-western Arabia³."

Now, these Arabs, unlike their companions in the hinterland of Arabia, were born traders and sailors, and from the moment they seized the coast of Arabia, they seized also "the lucrative commerce which supplied precious stones and spices and incense to the ever-increasing service of the gods of Egypt. This was their prerogative, jealously guarded, and upon this they lived and prospered according to the prosperity of the Pharaohs. The muslins and spices of India they fetched themselves or received from the Indian traders at their ports on either side of the Gulf of Aden; carrying them in turn over the highlands of the upper Nile, or through the

¹ Schoff: notes to his edition of The Periplus of the Erythraean Sea, p. 3.

² "Innumerable tumuli with cyclopean masonry of the well-known Phoenician pattern cover the central island of the group; ivories of Phoenico-Assyrian shape, and at least one cuneiform inscription, have been found there." *J.R.A.S.* (1898), p. 246.

³ F. B. Pearce, Zanzibar, p. 18 (1920).

BEFORE THE RISE OF SĀSĀNIAN PERSIA 47

Red Sea and across the desert to Thebes or Memphis¹." And as time went on and the Arab retained his monopoly, he built up a magnificent civilization, of which the first written record is supplied by Agatharchides, president of the Alexandrian library, in the year 113 B.C.:

"Sabaea abounds with every production to make life happy in the extremc: its very air is so perfumed with odours that the natives are obliged to mitigate the fragrance by scents that have an opposite tendency, as if nature could not support even pleasure in the extreme. Myrrh, frankincense, balsam, cinnamon. and cassia are here produced from trees of extraordinary magnitude. The King, as he is on the one hand entitled to supreme honour, on the other is obliged to submit to confinement in his palace, but the people are robust, warlike, and able mariners; they sail in very large vessels to the country where the odoriferous commodities are produced; they plant colonies there, and import from thence the larimnon, an odour nowhere else to be found: in fact there is no nation upon earth so wealthy as the Gerrhaeans and Sabaeans, because of their situation in the centre of all the commerce which passes between Asia and Europe. These are the nations which have enriched the Syria of Ptolemy; these are the nations that furnish the most profitable agencies to the industry of the Phoenicians, and a variety of advantages which are incalculable. They possess themselves every profusion of luxury, in articles of plate and sculpture. in furnishing of beds, tripods, and other household embellishments, far superior in degree to anything that is seen in Europe. Their expense of living rivals the magnificence of princes. Their houses are decorated with pillars glistening with gold and silver. Their doors are crowned with vases and beset with jewels; the interior of their houses corresponds to the beauty of their outward appearance, and all the riches of other countries are here exhibited in a variety of profusion. Such a nation, and so abounding in superfluity, owes its independence to its distance from Europe; for their luxurious manners would soon render them a prey to the sovereigns in their vicinity, who have always troops on foot prepared for any conquest, and who if they could find the means of invasion, would soon reduce the Sabaeans to the condition of their agents and factors, whereas now they are obliged to deal with them as principals2."

¹ Schoff: notes to his edition of The Periplus of the Erythraean Sea, p. 3.

² Agatharchides, quoted by William Vincent, in his Commerce and Navigation of the Ancients in the Indian Ocean, Vol. II., pp. 33-35, London (1807). Agatharchides is placed by Blair in 177 B.C., by Dodwell in 104 B.C., and by Schoff in 113 B.C.

The first attempt to deprive the Arabs of the monopoly of the Indian trade was made in 18 B.C. when Ælius Gallus was ordered by the Emperor Augustus to explore both Arabia and Ethiopia. But the credit for opening the Indian ocean was to go to a Roman slave and not to a Roman general, for Ælius Gallus could only advance into Arabia as far as Radman¹ whilst a free slave of Annius Plocamus reached the coasts of Carmania, whither he was accidentally driven by the north winds2. Shortly after this in the year 45 A.D., the navigator Hippalus, who "had observed the periodic change of the Indian monsoon (doubtless long known to Arab and Hindu), made a successful trading voyage and returned with a cargo of all those things for which Rome was paying so generously: gems and pearls, ebony and sandalwood, balms and spices, but especially pepper3." The discovery of the monsoons was like an 'Open Sesame' to the Romans but the Arab was still there and had not been annihilated.

Of the trade in the Indian Ocean about this time an unknown merchant of Berenice has left an imperishable record in his Periplus of the Erythraean Sea. The seaboard of the Indian Ocean, its winds and waves and rocks, the builders and agents and the captains of ships, the gatherers of incense and ivory and spices, the buyers and sellers of the souls of men, the immemorial monopoly of the Arab, the quaint seacraft of the Hindu, the adventurous instinct of the Roman, the distance from port to port and the way of the ship in the midst of the sea—all this is treated in its entirety and with the faithfulness of personal observation. As this sea-trade, which the Roman shared with the Arab and the Hindu, became afterwards almost a Persian monopoly, it is necessary to give the salient features of the Periplus of the Erythraean Sea.

The principal ports of Egypt for the Eastern trade were Myoshormus and Berenice. "Vessels bound for Africa and Southern

¹ A. Sprenger, The Campaign of Ælius Gallus in Arabia, J.R.A.S. (1872), pp. 121-141.

Pliny, Natural History, Bk. VI., Ch. XXII., Eng. tr., p. 129.

Schoff: intr. to his edition of The Periplus of the Erythraean Sea, p. 6.

Arabia left Myos-hormus about the autumnal equinox, when the N.W. wind then prevailing carried them quickly down to the gulf. Those bound for India or Ceylon left in July, and if they cleared the Red Sea before the first of September they had the monsoon to assist their passage across the ocean." At Adulis (Massowa) on the coast of Ethiopia, ivory, tortoise-shell and rhinoceros-horn were exported in exchange for cloth, base metals and presents for the king. Next came a series of ports on the Horn of Africa and the nearest of them all to Arabia was Avalites, the modern Zeila. "Ships are customarily fitted out from Ariaca (the Gulf of Cambay?) and Barygaza (Broach) bringing to these far-side market-towns the products of their own places—wheat, rice, clarified butter, sesame oil, cotton cloth, and girdles, and honey from the seed called sacchari." The Indian and Arabian trade was not confined merely to the Horn of Africa; it extended down Azania or the Eastern coast of Africa, as far as Rhapta. "The people of Muza send thither many large ships, using Arab captains and agents, who are familiar with the natives and intermarry with them, and who know the whole coast and understand the language." And all along the coast the trade was brisk, uniform, and lucrative, for the native of the Dark Continent who had no need for the precious commodities of his country-rhinoceros-horn, tortoise-shell, and ivory-willingly exchanged them for hatchets and awls and various kinds of glassbeads, and the produce of Indian farms and fields. At Rhapta, the trade came abruptly to an end, for the unexplored ocean lay beyond, mingling with the Western Seal.

But to return with the *Periplus* to the Arabian peninsula, there were the two market-towns of Petra to the north and Muza to the south—the former at the junction of the caravan-routes from Yemen and the Persian Gulf; the latter on the sea-route to Berenice, Rhapta, and Barygaza. In general, the eastern shore of the Red Sea was bleak and inhospitable, but farther south, on the southern coast of Arabia, there were a number of flourishing ports, like Cana and Moscha, whence the incense from the incense-land—

¹ The Periplus of the Erythraean Sea, paras. 1-18.

the Zafāri mountains, the Zafāri and Junūba districts, the Ḥaḍramawt valley, and the opposite Somali coast of Africa—was shipped "for temple-service on the Nile or Euphrates, on Mount Zion, or in Persia, India or China."

Passing now to the Persian Gulf, there was Apologus on the Euphrates and Charax Spasini (Muḥammarah) on the Shatta 'l-'Arab. "To either place large vessels were regularly sent from Barygaza, loaded with copper and sandalwood, and timbers of teakwood, and logs of blackwood and ebony." Ommana, on the southern coast of the Persian Gulf, commanded a large shipbuilding industry, and from all the three towns of the Gulf there were exported to Barygaza and also to Arabia, purple and clothing and wine, and many pearls, and a great quantity of dates, gold, and slaves.

"Beyond the Ommanitic region there is a country also of the Parsidae, of another Kingdom, and the bay of Gedrosia, from the middle of which a cape juts out into the bay. Here is a river affording an entrance for ships, with a little market-town at the mouth, called Oraea.... This country yields much wheat, wine, rice, and dates, but along the coast there is nothing but bdellium¹."

Arrian also mentions the town of Oraea, lying at the mouth of the river Arabius, which forms the boundary between the Oritae and the Arabii², whilst Charax Spasini, named after Spasinus, king of the neighbouring Arabians³, was the capital of an Arab state with a small amount of independence. There is little doubt that during the loosely-organized Parthian empire, the Arabs, finding the coast clear, extended their trade and colonies to the northern littoral of the Persian Gulf, for apart from Charax Spasini and the river Arabius there was the Arab town of Atra on the west of the Tigris, governed by its own kings and in later Parthian times a place of special importance⁴. The rise of the Sāsānian empire prevented the encroachment of the Arabs, but with Islām the process

¹ The Periplus of the Erythraean Sea, para. 37.

² Arrian, Indian History, Ch. 21, tr. Rooke, London (1814), Vol. 2, p. 222.

³ Pliny, Natural History, VI., 31.

⁴ Article on Persia; Ancient History, *Encyclopaedia Britannica*, Vol. XXI. p. 216 a.

BEFORE THE RISE OF SĀSĀNIAN PERSIA 51

was resumed, so that the south-western province of Persia, called Khūzistān, bears the alternative name of 'Arabistān even today.

But the presence of the Persian element must not be ignored because of the existence of the Arabian element in the Parthian sea-trade. The farthest point on the south coast of Arabia, belonging to the Arabs, was Asich or Ra's Hāsik (17° 23' N., 55° 20' E.). "Beyond that," says the Periplus, "there is a barbarous region which is no longer of the same kingdom, but now belongs to Persia¹." The Parthian empire, founded by Mithradates I (c. 170-138 B.C.) and restored by Mithradates II (124-88 B.C.) and Phraates III (70-57 B.C.), never succeeded in annihilating the independence of Persia. "Persis." says Prof. Meyer. "never became a part of the empire of the Arsacids, although her kings recognised their supremacy, when they were strong (Strabo, xv., 728, 736). From The Periplus of the Erythraean Sea (33-37) we learn that the authority of Persia extended over the shores of Carmania, and the opposite coasts of Arabia. A Persian king, Artaxerxes, is mentioned in a fragment of Isidore of Charax (Lucian, Macrobii, 15). Other names occur on their coins...Darius, Narses, Tiridates, Manocihr and others²." The territory comprising Persis, Carmania, the southern shore of the Persian Gulf, and the modern province of Uman. was, therefore, under Persian control at the time of the Periplus, and this control could not possibly have been exercised without the possession of sea-power. And the Persians of Carmania were not, apparently, without a fleet even before the time of the Periplus, for Pliny records "that Numenus, lord deputy vnder K. Antiochus, ouer Mesena, and general of his army, defeated the nauy of the Persians in sea-fight, and the same day with the opportunity of the

¹ The Periplus of the Erythraean Sea, para. 33.

² Eduard Meyer, article on Persis, *Encyclopaedia Britannica*, Vol. XXI., p. 254. The recent work of Mr G. F. Hill leads to the same conclusion: these kings of Persis ruled from about 250 B.C. to 226 A.D., and it was in their kingdom with its two large cities of Pasargadae and Persepolis that the coins were struck. See *Catalogue of Greek Coins in the British Museum* (Persia), plates 29-37, and intr. pp. clx.-clxi., London (1922).

tide returned to land againe, and gaue their horfemen an ouer-throw: whereupon, in memoriall of a twofold victory in one day atchieued, he erected two triumphant trophies, the one in honour of Iupiter, and the other of Neptune¹." According to F. Justi, this engagement took place in 165 B.C.², but the details are lacking, and the author of the *Periplus*, in sailing from Arabia to India, seems to have gone direct from Kuria Muria to Masira and thence to the mouth of the Indus, so that the most significant part of his voyage is the briefest, being based only on hearsay.

There remains now the coast of India, of which the principal ports were Barbaricum (Karachi) and Barygaza (Broach) to the north; Muziris (Cranganore) and Nelcynda (Kottayam) to the south-west; Camara, Poduca, and Sopatma to the south-east; and Ganges on the delta of the Ganges. Muziris and Nelcynda exported large quantities of pepper, malabathrum, fine pearls, and silk cloth, and, like the ports of Coromandel, commanded an extensive coastal and sea-borne traffic:

"The thriving town of Muchiri (Muziris) where the beautiful large ships of the Yavanas' bringing gold, come splashing the white foam on the waters of the Periyar, which belongs to the Cherala, and return laden with pepper'.... Fish is bartered for paddy which is brought in baskets to the houses; sacks of

- ¹ Pliny, Natural History, Bk. vi., Ch. xxviii., Eng. tr., p. 141.
- ² "Autophradates is probably the person whom Numenus the general of Antiochus IV fought against in 165 B.C." Grundriss der iranischen Philologie, p. 487, Strassburg (1896–1904).
- ⁸ Yavanas = Greeks (Iaones); also Persians (as in Raghu's conquest, described by the Sanskrit poet Kālidāsa in the fourth canto of Raghu Vamsam—vide M. M. Ganguly, Orissa and her Remains, p. 98, 1912), Arabs, and the people of the Western Laos or the Shan country. "Yavana, Yona, Yon, and Yuen, if not translations of C'hieng must be imitative renderings of Yüan and Yüeh.... C'hieng (mixed or crossed) is the Thai synonym of the Chinese Yüeh, in Annamese Viet." Vide G. E. Gerini, Researches on Ptolemy's Geog. of East. Asia, pp. 133-134, and p. 120, n. 3; also p. 128, n. 2, and p. 132.
- ⁴ Erukkadur Thayankannanar in the Akam (a collection of 401 different pieces composed on various occasions by more than 200 Tamil poets), v. 148, tr. V. Kanakasabhai, The Tamils Eighteen Hundred Years Ago, Madras and Bangalore (1904), p. 16.

BEFORE THE RISE OF SĀSĀNIAN PERSIA 53

pepper are brought from the houses to the market; the gold received from ships, in exchange for articles sold, is brought to shore in barges, at Muchiri, where the music of the surging sea never ceases, and where Kudduvan (the Chera king) presents to visitors, the rare products of the seas and mountains¹."

It is noteworthy that a frequent symbol of the Andhra coinage is a ship with two masts and "the maritime traffic to which the ship bears witness is also attested by the large numbers of Roman coins found on the Coromandel coast²."

Similarly, on the eastern coast of India, the evidence of the *Periplus* is corroborated by the evidence of Tamil poetry. The Camara of the *Periplus*, for example, is identical with Pukar or *Kaviripaddinam of the *Chilappathikaram*:

- ¹ Paranar in the *Puram*, v. 343, tr. V. Kanakasabhai, *The Tamils Eighteen Hundred Years Ago*, p. 16.
- ² E. J. Rapson, *Coins of the Andhra Dynasty*, p. lxxxii. London (1908). Cf. Pliny, *Natural History*, Bk. vi., Ch. xxxiii., Eng. tr. by P. Holland, London (1601), p. 33:
- "It cofts our State to furnish a voiage into India fifty millions of Sesterces. For which the Indians send backe againe commodities, which being at Rome, are fold for an hundred times as much as they cost."
 - ³ V. Kanakasabhai, The Tamils Eighteen Hundred Years Ago, p. 25.
 - ⁴ Paddinappalai, 11., 134–136, in V. Kanakasabhai, p. 25.
 - ⁵ Chilappathikaram, v. 1., 10, in V. Kanakasabhai, p. 38.
 - ⁶ Paddinappalai, II., 185-191, in V. Kanakasabhai, p. 27.

54 TRADE-CONDITIONS IN THE EAST

The delta of the Ganges¹ was, apparently, the terminus of Roman trade at the time of the *Periplus*. Later, 166 A.D., "a party of foreigners representing themselves as sent by An-tun (the Emperor Marcus Aurelius Antonius) arrived by sea in Tongking, and proceeded thence overland to the court of the Emperor Huan-ti. Later still, in 226 A.D., another westerner came to China, also a merchant from Ta-ts'in, Ts'in-lun by name; he also landed in Tongking, and was sent overland to the court of the Emperor Suan-ch'üan²." The sea-route to China, however, was by no means a discovery of the Romans, for Chinese junks sailed to Malabar in the second century B.C., and probably earlier³. But in pre-Sāsānian times these voyages were not made with any regularity, and since China was the only source of silk—for the antiquity of the industry in India does not go beyond the Christian era—the bulk of the silk-trade had to come overland, even as the *Periplus* has recorded:

"Under the very north, the sea outside ending in a land called This, there is a very great inland city called Thinae, from which raw silk and silk yarn and silk cloth are brought on foot through Bactria to Barygaza, and are also exported to Damirica by way of the river Ganges. But the land of This is not easy of access; few men come from there and seldom⁴."

The overland journey comprised the Nan-lu, or southern way, and the Péi-lu, or northern way, and led as follows:

"Singanfu, Lanchowfu, Kanchow, Yümenhsien, Anischow, Lop Nor to Tsiemo (the Asmiraea of the Greeks) where the routes divided. The Nan-lu followed south of the Tarim River to Khotan and Yarkand, thence over the Pamirs and westward to the Oxus and Bactra. This was the earliest route opened by the Chinese army under Pan Chao, being cleared in 74 A.D. The second route, the Péi-lu or 'northern way,' followed the same course from Singanfu to Tsiemo, thence north of the Tarim through Kuché and Aksu to Kashgar, and

¹ The Chilappathikaram, II., 99-103, mentions the seaport Gangai on the banks of the Ganges. V. Kanakasabhai, The Tamils Eighteen Hundred Years Ago, p. 11.

² Chau Ju-kua, ed. F. Hirth and W. W. Rockhill, p. 5, St Petersburg (1911).

³ Schoff, The Periplus of the Erythraean Sea, p. 214. Regular trade between Yünnan and Pegu began only in the 2nd century A.D. (Chau Ju-kua, p. 6, n. 2).

⁴ The Periplus of the Erythraean Sea, para. 64.

BEFORE THE RISE OF SĀSĀNIAN PERSIA 55

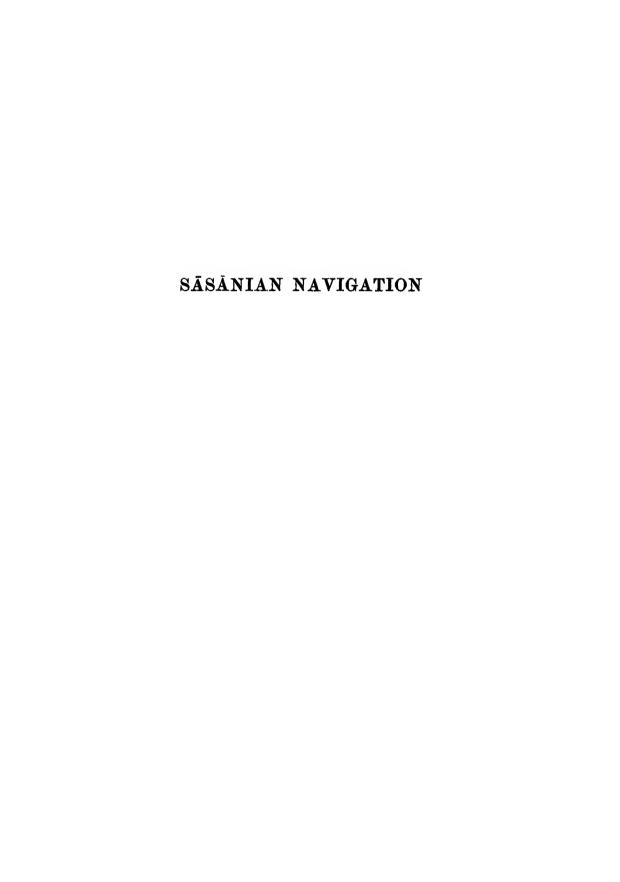
over the tremendous heights of the Terek to the Jaxartes and Samarcand. Thence a route lay southward to Bactra, while another lay southwestward more directly to Antiochia Margiana (Merv). This second route was opened by Pan Chao in 94 A.D..... At Bactra, this overland trade route branched again, following westward through the Parthian highlands to the Euphrates, or southward to Bamian, the Cabul valley, the Khyber Pass, and the Indus. From Taxila, the highway of the Maurya dynasty led through the Panjāb to the capital at Palibothra, with a branch from Mathurā southward to Ozene and the Deccan. The route down the Indus to its mouth was less important owing to the character of the tribes living on the lower reaches. This is indicated by the text¹, which says far more of the products carried by the overland route to Barygaza than of those coming to Barbaricum²."

Afterwards, with the rise of Sāsānian Persia, and with that of Persian navigation, the silk-trade fell completely into the hands of Persia. That portion of it which came overland had already been monopolized by the Parthians and passed ipso facto to the Persians with the transfer of the empire; but that portion which came by sea, or found its way through Bactra to the ports of India, was won by sheer competition and the development of a Persian marine. And to a study of this new power which supplanted both the Roman and the Arab trader in the Indian Ocean it is now time to proceed.

¹ i.e., The Periplus of the Erythraean Sea.

² Schoff, notes to his edition of *The Periplus of the Erythraean Sea*, pp. 268-270.

		N.



SĀSĀNIAN NAVIGATION

Ardashīr-i-Pāpakān, the son of Sāsān the shepherd, and the adopted son of Papak, the Prince of Pars, was the first king of the second national empire of Persia—the Sāsānian. Towards the north and south the new empire was coextensive with the old. while towards the east and west, though occasionally the Indus1 and the Nile² were reached, the permanent limits were Makran and the . left bank of the Euphrates. "In his inscriptions, the Sāsānian King assumes the title of the 'King of the Kings of the Iranians and non-Īrānians' but the only non-Īrānian land he ever held was Eastern Mesopotamia." The Sāsānian empire, indeed, was even more a continuation of the Kayanian empire than the Achaemenian: under the Kayanian Splendour³ the Sasanian king came to the throne, and under the Kayānian flag4 the Sāsānian armies marched to The very name Sāsānian is Kayānian, for the shepherd Sāsān was the seventh in descent from Gushtāsp, the patron of Zoroaster. And as Ardashir was the son of Sāsān it was but natural for him to become the "Defender of the Faith" and to advance "the Good Religion" of Zoroaster once again to the position of the state religion of Persia.

It is vital, therefore, to the subject of Persian navigation to decide whether the sea was a creation of Ahrīman or of Ahūra Mazda. In the year 66 A.D. Tiridates, king of Armenia, and brother of the Parthian Vologaeses I, had to travel to Rome to receive the diadem at the hands of Nero, and because the journey was

² In 616 A.D., Shahr-Barz, the Persian general, captured Alexandria.

¹ Vincent A. Smith, Invasion of the Panjāb by Ardashīr Pāpakān, J.R.A.S. (April 1920), pp. 221–226.

³ Farr-i-Kayāni or Royal Splendour which conferred, on all the legitimate Kings of Persia, royalty by divine right and divinity by right of royalty.

The usurper Daḥhāk was put down by the blacksmith Kāwa whose leathern apron became the standard of national liberty.

performed by land Tiele has come to the conclusion that the sea is Ahrīmanian¹.

"This would probably mean," says Moulton, "that a first-century Arsacide inherited an old Iranian impulse, and the action would thus be in line with Xerxes' defiance of an element the Aryans never knew, and therefore never loved as the Greeks and the Germanic races have done. But Tiele has unwarrantably ignored the reason assigned by Pliny that Tiridates would not pollute a sacred element, as a sea-traveller must do², and our inference is that the sea, like the other waters, was a creature of Ormazd for the Magi, and the horror at Xerxes is characteristic of them. I do not press the notice of Herodotus (VIL, 91) that the Magi sacrificed to the Thetis and the Nereids, genii of the sea, for we are expressly told that they were prompted by the Ionians, but I feel convinced that Tiele is doubly wrong³."

More direct evidence is, however, available. The Pahlawi Madegane-lak-yom, written by Dastür Adarbad Marespand, about the fourth century A.D., in admonition to his son, Zartushtra, gives in detail the peculiar virtues of each day of the Zoroastrian month, and says that the tenth day of each month, called the day of Āvān, "is for making a voyage over the sea, for irrigation, and the digging of canals, for cleansing the waters of a well, for planting trees, and for sowing corn⁴." Similarly according to the Pahlawi Kārnāma, when Ardashīr-i-Pāpakān came to the Gulf of Persia, and "saw the ocean before his eyes, he offered thanksgiving to God, and called that place the city of Bôkht Artakhshīr, and ordered an Ātash-i-Wahrām to be enthroned on the sea-coast⁵." And, according to Procopius, when Nūshīrwān reached Seleucia on the Mediterranean coast in the year 540 a.D., "he bathed himself alone in the sea-

¹ C. P. Tiele, Geschichte der Religion in Altertum, p. 250, Vol. II., Gotha (1903).

² Magus ad eum (Neronem) Tiridates venerat...ideo provinciis gravis. Navigare noluerat, quoniam exspuere in maria aliisque mortalium necessitatibus violare naturam eam fas non putant.

³ J. H. Moulton, Early Zoroastrianism, footnote 2, p. 216; et p. 419.

⁴ D. F. Karaka, History of the Parsis, Vol. I., p. 137, London (1884).

⁵ Kārnāma-i-Artakhehīr-i-Pāpakān, 1v., 7-8, tr. D. D. P. Sanjāna, Bombay (1896).











- r 'PERSIAN' SHIP AJANTA 2 PALLAVA COIN, COROMANDEL COAST 3 ANDHRA COIN, COROMANDEL COAST



water, and after sacrificing to the sun and such other divinities as he wished, and calling upon the gods many times, he went back¹." Moreover, the glory of the Kayānians produced by Mazda, which accompanies all the legitimate kings of Īrān, from the Pīshdādians to the Sāsānians, "hovers in the middle of the sea Wouru-Kasha²" and "the Tūrānian Frangrasyān tried to seize it in the sea Wouru-Kasha³." It is not quite clear whether the sea Wouru-Kasha is salt or fresh⁴, but as the Persian Gulf and the Mediterranean Sea are salt and as navigation is expressly recommended on the day of Āvān, neither can the sea be Ahrīmanian, nor can Zoroastrianism be opposed to maritime activity.

Passing now from the evidence of religious history to political, Ḥamza of Iṣfahān writes about 961 A.D. that Ardashīr-i-Pāpakān founded the following number of cities⁵: (i) Wahashat Ardashīr founded the following number of cities⁵: (i) Wahashat Ardashīr , (ii) Rām Ardashīr , (iii) Rām Hurmuz Ardashīr , (iii) Rām Hurmuz Ardashīr , (iv) Būd Ardashīr , iv) Būd Ardashīr , one of the cities of Moṣul, (v) Bath Ardashīr , one of the cities of Baḥrain, (vi) Inshā Ardashīr انشأ اردشير الدشير أردشير on the Dujail, (vii) Bahman Ardashīr كرخ ميسان or Bahmanshīr الدشير خرة about seventy miles from Shīrāz, (ix) the two neighbouring cities of Hurmuz Ardashīr , and the depth of the aristocracy and called Hurmshīr , and the other inhabited by merchants and called Hurmshīr , and finally the two distinct cities of Bih Ardashīr , the one in

¹ Procopius, *De Bello Persico*, Bk. 11., xI. (1), tr. H. B. Dewing, p. 351 (1914).

² Yasht, v. 42: vazaiti maidhim zrayangho Wouru-Ka<u>sh</u>ahê.

⁸ Idem, XIX., 56.

⁴ The Wouru-Kasha, apparently a fresh-water inland sca, is connected, by the lake Çatavaeça, with the large salt-water sea called Puitika. A strong high wind in the lake Çatavaeça prevents the saline and solid element of the Puitika from entering the clear and pure waters of the Wouru-Kasha. See the Bundahishn, Ch. XIII. On the nature of seas in F. Justi, Der Bundehesh, p. 15, Leipsic (1868).

⁵ Hamza of Isfahan, Annals, ed. Gottwaldt, pp. 46-49, Leipsic (1844).

Kerman and the other constituting one of the cities of the imperial capital or Madā'in مدائن. Of these cities, Hūjistān Wājār was identical with Sugu I-Ahwaz on the river Karun: Bih Ardashir or Wih Ardashīr was a restoration of Seleucia; Wahashat Ardashīr or Wahistābād Ardashīr was the port of Ubullah1: Inshā Ardashīr or Karkh Maisan was a sister town to Ubullah near Basra; Bahman Ardashir, corrupted by the people of Basra to Bahmanshir, was likewise near Basra: Rām Ardashīr or Rīshahr was on the Persian Gulf. six miles south of the modern Bushahr: and Batn Ardashir or Bit Ardashir was on the line of sea-coast, called Khatt, opposite the island of Bahrain. The Kārnāma, moreover, has supplied the names of Guzarān², Rāy-i-Shāpūr³, Artakhshīr Gādmān⁴, Rāmishnai-Artakhshīr⁵, and Bôkht Artakhshīr, of which the first is unidentified, the second is Jundai Shāpūr, the third is Fīrūzābād, the fourth is Ram Ardashir or Rishahr, and the fifth is the town already described as lying on the Persian Gulf. Finally, the Nuzhatu 'l-Qulūb and other works, with the exception of the Tārīkh-i-Guzīda, ascribe the town of Hurmuz on the mainland⁶, opposite the island of Hurmuz, also to Ardashīr-i-Pāpakān, who is further credited by Justi with the foundation of Duhmi Ardashir and Dastagird or Eski Baghdād⁷. Altogether, therefore, about eighteen towns are supposed to have been built or rebuilt by Ardashīr-i-Pāpakān, and it is a remarkable fact that as many as eleven of these are seaports. for they either lie on the coast itself, or on rivers navigable to seagoing craft. And as, according to Hamza, Batn Ardashir was in the neighbourhood of Bahrain, and was named after its walls, built by the conqueror in alternate layers of bricks and of Arab bodies. it is evident that the maritime activity of Ardashīr-i-Pāpakān

¹ Ferd. Justi, Grundriss der iranischen Philologie, p. 517, Strassburg (1896–1904).

² The *Kārnāma*, VIII., 16.

⁸ Idem, x., 17.

⁴ Idem, IV., 17.

⁵ Idem, 1v., 6.

⁶ Ḥamdu 'llāh Mustawfī, Nuzhatu 'l-Qulūb, ed. G. le Strange, Persian Text, p. 141 (1915). See also Encyclopaedia of Islām under Hormuz.

⁷ Ferd. Justi, Grundriss der iranischen Philologie, p. 517, Strassburg (1896–1904).

extended beyond the Persian coast and had, as its ulterior object, the literal conversion of the Gulf of Persia into a Persian gulf.

The imperial capital was Ctesiphon or Madā'in, مدائن, literally, a collection of towns. Built by Ardashīr-i-Pāpakān on the left bank of the Tigris, opposite the ruins of Seleucia, it grew under the later kings by the addition of new towns and thus acquired a collective name. Not far distant, in the neighbourhood of ancient Babylon. was the town of Hira, the capital of an Arab state dependent on the Sāsānian empire. "Htrah," says le Strange, "had been a great city under the Sassanians. Near by stood the famous palaces of As-Sadir and Al-Khawarnak, the latter built according to tradition. by Nu'man, prince of Hirah, for King Bahram Gur, the great hunter. The palace of Khawarnak with its magnificent halls had mightily astonished the early Moslems when they first took possession of Hirah on the conquest of Mesopotamia¹." With Sāsānian influence so predominant it was not possible for the Arab capital to impair the prosperity of the Iranian, and Ctesiphon continued to be the premier entrepôt of Eastern trade up to the very rise of Islam. There is evidence, at any rate, that as late as the time of Nüshirwan, Ctesiphon had not even completed its growth, for Kubād (487-531 A.D.), according to Hamza, built the town of Hanbū Shābūr منبو شابور near Madā'in, and Nūshīrwān (531-579 A.D.) added to Mada'in the city of Bih-az-Andiv-Khusraw به از اندیو خسرو or "better-than-Antioch-Khusraw." The days, indeed, had come when the Arabian element was to be sought in the Persian trade, and not the Persian element in the Arabian.

But the control of trade, and especially the sea-trade of the Gulf², was not acquired by Persia without a struggle. On the death

¹ G. le Strange, The Lands of the Eastern Caliphate, p. 75.

² The Chin-shu, written before the middle of the 7th century, and embracing the period 265-419 A.D., states: "The inhabitants of An-hsi (Persia) and Tienchu (India) have trade with the people of Ta-tsin (Syria) by sea; the profit of this trade is hundredfold." F. Hirth, China and the Roman Orient, p. 45 (1885). An-hsi generally means Parthia, but as the Chin-shu deals with a period when Parthia was no longer in existence (having been subdued by Ardashīr-i-Pāpakān in 226 A.D.) the word An-hsi has to be translated here as Sāsānian Persia.

of Hormisdas II in the year 309 A.D. "his adult sons were disqualified because of their Hellenic sympathies, and the crown placed on the late king's embryo, which the *Mobed* declared was male." The forecast proved true, and the posthumous son ascended the throne of Persia as Shāpūr the second, known to Arab historians as Shāpūr Dhū 7-aktāf, and to European historians as Shāpūr the Great (310-379 A.D.).

The minority of Shapur served as an incentive to Arabian aggression, and "from the land of 'Abdu'l-Qais, Bahrain, and Kazima a numerous army crossed over by sea to the port of Rishahr and the coasts of Ardashir Khurra and Fars" and plundered the neighbouring country1. And so matters stood for a while until Shapur came of age, and took the offensive and hurled back the invaders to the coast (326 A.D.). "Then," says Tabari, "Shāpūr crossed the sea with his companions, and disembarked at Khatt and traversed the land of Bahrain slaving the inhabitants.... And he went straight on and came to Hajar and slaughtered the Arabs of Tamīm, Bakr bin Wā'il and 'Abdu'l-Qais2." Similar was the fate of al-Yamamah, al-Madina, and the Bakr and Taghlib3, and since the Arabs, who were taken in captivity, had their shoulders pierced and tied together with a rope⁴, Shāpūr received the title of Dhū 'l-aktūf or "Lord of the Shoulders." In his Sāsānian Coins published in 1924, Mr F. D. J. Paruck states that "the Pahlavī expression for the Arabic Zulaktāf is not known5," but Hamza of Isfahān states explicitly in his Annals that "Shāpūr, who was

فسار جهع عظيم منهم في البحر من ناحية بلاد عبد القيس و البحرين و كاظهة حتى اناخوا براشهر و سواحل إردشير خرّه و اسياف فارس

ثمر قطع البحر في اصحابه فورد الخطّ و استقري بلاد البحرين يقتل الهلها.....ثمر مضي علي وجهة فورد هُجُر و بها ناس من اعراب تهيم و بكر بن واثل و عبد القيس فافشى فيهم القتل و سفك فيهم من الدماء

¹ Tabarī, Annals, ed. de Goeje, I., p. 836:

³ Idem, pp. 838-839:

⁸ *Idem*, p. 839.

⁴ Hamza of Isfahan, Annals, ed. Gottwaldt, p. 52.

⁵ F. D. J. Paruck, Sāsānian Coins, p. 91.

called <u>Dhū</u> 'l-aktāf by the Arabs, was named by the Persians, Hūya Sunbā هويه from hūya هويه سنبا shoulders' and sunbā هويه 'perforated'¹."

But the Arabs, though driven from the Persian Gulf, were still supreme in the Indian Ocean, and Fa-hian, who visited Cevlon in 414 A.D., says that "the houses of the Sa-poh (Sabaean) merchants are very beautifully adorned?" From this date, however, the decline of the Arab begins, for the adventurous Bahram Gür (420-438 A.D.) travelled incognito to India³, whence, according to Tabari, he returned with an Indian wife⁴ and the rich dowry of Daibul, Makran, and the adjacent parts of Sind⁵. Prof. Rawlinson has summarily rejected the evidence of Tabari⁶, and Mr Paruck has as readily accepted it, and since material evidence is not obtainable in support of either opinion it is best perhaps to compromise; and as Daibul was the rich sea-port at the mouth of the Indus, and since Makran and Sind are both maritime provinces, the most charitable interpretation of Tabari would be that the sea-coast of Makran to the port of Daibul was subdued by the Persians economically. And this inference, which involves an expansion of Persian maritime activity, can be most amply demonstrated by the course of subsequent events, for in 512 A.D. Persian vessels were found in active competition with Rome in the distant ports of Ceylon.

"I must here relate," says Cosmas Indicopleustes, "what happened to one of our countrymen, a merchant called Sopatrus, who used to go to the Indies on business, but who to our knowledge has now been dead these five and thirty

- ¹ Hamza of Işfahān, Annals, ed. Gottwaldt, p. 52.
- ² Beal, Buddhist Records of the Western World, Intr. lxxiv., Vol. I., London.
- ³ Mīrkhwānd, Rawdatu 'ṣ-ṣafā, tr. by E. Rehatsek, ed. F. F. Arbuthnot (Oriental Translation Fund, New Series 1), Part 1., Vol. 11., pp. 360-362, London (1892).
- ⁴ The daughter of Vasudeva, of the dynasty of the Mahārājas Adhirāja of Magādha and Kanawj.
 - ⁵ Tabarī, *Annals*, ed. de Goeje, I., p. 868.
- ⁶ G. Rawlinson, The Seventh Great Oriental Monarchy, footnote 2, p. 426, London (1876).
 - ⁷ F. D. J. Paruck, Sāsānian Coins, p. 98, Bombay (1924).

years past. Once on a time he came to this island of Taprobane (Ceylon) on business, and as it chanced a vessel from Persia put into port at the same time with himself. So the men from Adulis with whom Sopatrus was, went ashore, as did likewise the people of Persia, with whom came a person of venerable age and appearance. Then, as the way there was, the chief men of the place and the custom-house officers received them and brought them to the King¹."

Now Cosmas wrote his *Christian Topography*, from which this account is taken, in 547 A.D.², and as Sopatrus had made the voyage to Ceylon thirty-five years before this date, the earliest notice of Persian trade with Ceylon falls in the year 512 A.D.

Kubād was reigning in Persia at this time, and Chosroes Nūshīrwān, who came to the throne of Persia in 531 a.D., proved one of the most illustrious sovereigns of the Sāsānian line. On the north his authority extended to Lazica on the Black Sea, and in the south to Yemen, and if we may believe Tabarī³, Ḥamza⁴, and ath-

¹ Cosmas Indicopleustes, *The Christian Topography*, Bk. XI., p. 368, J. W. McCrindle, London (1897).

Similarly, according to Cosmas (Bk. III., p. 118), there was a Persian bishop in Calliana (the modern Kalyān, on the mainland near Bombay) and in the Isle of Dioscoris (Socotra). "There are clergy there also, ordained and sent from Persia to minister among the people of the island, and a multitude of Christians."

- ² Idem, introduction, p. x. Tennent in his Ceylon (Vol. I., p. 542, n. 2) says: "Cosmas wrote between A.D. 545 and A.D. 550."
 - ³ Tabarī, Annals, ed. de Goeje, I., p. 965:

فلها دانت لكسري بلاد اليمن وجه الى سرنديب من بلاد الهند و هي ارض الجواهر قائدا من قواده في جند كثيف فقاتل ملكها فقتله و استولى عليها و حمل الى كسرى منها اموالا عظيمة و جوهرا كثيرا

And after the land of Yemen obeyed Kisrā, he sent one of his commanders with a mighty army to Sarandīb, which is a land of jewels, and a dependency of India. The Persian general fought with the King of Sarandīb, and killed him, and ruled over the island. And from there he carried to Kisrā great wealth and many jewels.

⁴ Hamza of Işfahān, Annals, ed. Gottwaldt, p. 58:

و من الفتوح الكبار التي جرت علي يـد كسري انوشيروان فتح مـدينـة سرانديب و فتح مدينة قسطنطنية و فتح كور اليهن <u>Th</u>a'ālibī¹, even to Sarandīb, or the island of Ceylon. M. Reinaud in his *Géographie d'Aboulféda*² and again in his *Mémoire sur l'Inde*³ believes that Ceylon was conquered by a Persian fleet, and Sir James Tennent in his *Ceylon* is of precisely the same opinion⁴:

"Early in the sixth century the Persians under Chosroes Nouschirvan held a distinguished position in the East, their ships frequented the harbours of India, and their fleet was successful in an expedition against Ceylon to redress the wrongs done to some of their fellow-countrymen who had settled there for purposes of trade."

Prof. Rawlinson questions the validity of this conquest and even doubts whether Nüshīrwān made an expedition towards India⁵, or held any Indian dominion⁶:

"In the division of the empire ascribed to Chosröes, the most eastern of his provinces appear to have been Khorasan, Seistan, and Kirman. Gibbon adds to these 'Cabul and Zavlestan,' but without much reason."

But according to a contemporary eye-witness—Cosmas Indicopleustes—"the river Indus, that is the Phison, which discharges into the Persian Gulf forms the boundary between Persia and India⁷"; and it seems to me extraordinary that Rawlinson should

Of the great conquests which happened at the hand of Kisrā Anūshīrwān is the conquest of the city of Sarandīb, that of the city of Constantine, and the conquest of the province of Yemen.

Constantinople, however, was never conquered by Nūshīrwān.

¹ Ath-Tha'alibī, *Histoire des Rois des Perses*, ed. H. Zotenberg, p. 615, Paris (1900):

و بلغ ملكه قشيير و سرنديب

His (Nüshīrwān's) rule extended to Kashmīr and Sarandīb.

- ² M. Reinaud, Géographie d'Aboulféda, Intr. CCCLXXXIII., Vol. I., Paris (1848): "Arab and Persian historians inform us that Nūshīrwān...sent a fleet to Ceylon, where, apparently, Persian merchants had suffered some injustice."
 - ³ M. Reinaud, Mémoire sur l'Inde, p. 125, Paris (1849).
 - ⁴ J. E. Tennent, Ceylon, Vol. 1, p. 580, London (1860).
 - ⁵ G. Rawlinson, The Seventh Great Oriental Monarchy, p. 426, London (1876).
 - ⁶ *Idem*, note, p. 427.
- ⁷ Cosmas Indicopleustes, *The Christian Topography*, Bk. XI., p. 337, Eng. tr. p. 366, ed. McCrindle.

have overlooked this point altogether, for he has freely consulted *The Christian Topography*.

But though it is certain that the empire of Nüshīrwān reached the Indus, it is doubtful whether it ever extended to Ceylon. Tabarī, Ḥamza, and ath-Tha'ālibī have apparently converted an economic conquest into a naval victory, for what is the evidence of Cosmas Indicopleustes and of Procopius of Caesarea? Says the former¹:

"The island (Ceylon) has also a church of Persian Christians who have settled there, and a Presbyter who is appointed from Persia, and a Deacon and a complete ecclesiastical ritual....The island, being as it is in a central position, is much frequented by ships from all parts of India, and from Persia, and Ethiopia, and it likewise sends out many of its own. And from the remotest countries?, I mean Tzinista and other trading places, it receives silk, aloes, cloves, sandalwood and other products, and these again are passed on to marts on this side, such as Mále, where pepper grows, and to Calliana which exports copper and sesame-logs and cloth for making dresses, for it also is a great place of business. And to Sindu⁸ also where musk and castor is produced and androstachys (a kind of spikenard), and to Persia and the Homerite country, and to Adulis. And the island receives imports from all these marts which we have mentioned and passes them on to the remoter ports, while at the same time, exporting its own produce in both directions."

The other authority for Persian trade in the Indian Ocean is Procopius of Caesarea, "known to posterity as the historian of Justinian (527-565 A.D.) and the chronicler of the great deeds of Belisarius." According to his own statement, "he was especially competent to write the history of these events, if for no other reason, because it fell to his lot, when appointed adviser to the general Belisarius, to be an eye-witness of practically all the events to be described. It was his conviction that while cleverness is appropriate to rhetoric, and inventiveness to poetry, truth alone is appropriate to history⁴."

¹ Cosmas Indicopleustes, *The Christian Topography*, Bk. xI., p. 337, Eng. tr. pp. 365-366, ed. McCrindle.

^{2 &}quot;The countries inside of Cape Comorin, that is, to the east of it."

⁸ "Probably Diul-Sind at the mouth of the Indus."

⁴ Procopius, De Bello Persico, I., 3-4, tr. by H. B. Dewing, p. 5, London and New York (1914).

Proceeding now to the actual evidence of Procopius,

"when Hellesthaios was reigning over the Ethiopians," says he, "and Esimiphaeus over the Homeritae, the Emperor Justinian sent an ambassador, Julianus, demanding that both nations on account of their community of religion should make common cause with the Romans in the war against the Persians; for he purposed that the Ethiopians, by purchasing silk from India and selling it among the Romans, might themselves gain much money, while causing the Romans to profit in only one way, namely, that they be no longer compelled to pay over their money to their enemy. (This is the silk of which they are accustomed to make the garments which of old the Greeks called Medic, but which at the present time they name 'seric'.') As for the Homeritae, it was desired that they should establish Caïsus, the fugitive, as captain over the Maddeni, and with a great army of their own people and of the Maddene Saracens make an invasion into the land of the Persians....So each king, promising to put this demand into effect, dismissed the ambassador, but neither one of them did the things agreed upon by them. For it was impossible for the Ethiopians to buy silk from the Indians, for the Persian merchants always locate themselves at the very harbour where the Indian ships first put in, (since they inhabit the adjoining country,) and are accustomed to buy the whole cargoes; and it seemed to the Homeritae a difficult thing to cross a country which was a desert and which extended so far that a long time was required for the journey across it, and then to go against a people much more warlike than themselves2."

Procopius does not mention the harbours of India but his omission is supplied by Cosmas.

"The most notable places of trade in India are these: Sindu, Orrhotha³, Calliana, Sibor⁴, and then the five marts of Mále which export pepper: Parti,

i.e., coming from the Chinese, or Seres. "China has been distinguished as the terminus of a southern sea-route, or as that of a northern land-route. In the former aspect the name applied has been Sin, Chin, Sinæ, China; in the latter point of view, the land of the Seres, known in the middle ages as the land of Cathay." Yule, Cathay and the Way Thither, Vol. I., p. 1, London (1915).

² Procopius, De Bello Persico, Bk. L, xx., 9-12, tr. by H. B. Dewing, pp. 193-194, London and New York (1914).

An unidentified place on the western coast of the peninsula of Gujarāt.

^{4 &}quot;Chaul or Chenwal, a seaport 23 miles to the south of Bombay."

Mangarouth, Salopatana, Nalopatana, Poudopatana¹. Then out in the ocean, at the distance of about five days and nights from the continent, lies Sielediba, that is Taprobane. And then again on the continent is Marallo, a mart exporting chank shells, then Caber² which exports alabandenum, and then farther away is the clove country, then Tzinista³ which produces the silk⁴."

During the reign of Nüshirwan, then, the Persians had succeeded in placing an embargo on the export of silk to the Roman empire. The control of the overland route had passed from the Parthians to the Persians, and the Turks in Western Asia, who were the carriers of silk⁵ and other articles of commerce, tried to evade the Persian monopoly by establishing a direct communication with the merchants of Constantinople. "Maniach, who was chief of the' people of Sogdia, took the opportunity of suggesting to Dizabulus (a great Khan of the Turks), that it would be more for the interests of the Turks to cultivate the friendship of the Romans, and to transfer the sale of silk to them, seeing also that they consumed more largely than any other people. And Maniach added that he was quite ready to accompany a party of Turkish ambassadors, in order to promote the establishment of friendly relations between the Turks and the Romans⁶." But the negotiations proved barren, and it was only the effort of two Nestorian monks, who brought from China the eggs of the silkworm concealed in a hollow cane, that led

- ¹ "Mangarouth is Mangalor; and Salopatana, Nalopatana, Poudopatana are situated between Mangalor and Calicut. Patana means town." McCrindle.
- ² "Situated a little to the north of Tranquebar, at the mouth of the Podukaveri (New Kaveri)." McCrindle.
 - ⁸ Same as SIN, or China as known by sea.
 - 4 Cosmas Indicopleustes, The Christian Topography, Bk. XI., Eng. tr. p. 337.
- ⁵ "It is most probable that the Persians attended to the actual purchase of the goods in China itself (there is important testimony on this point in Hirth, *Ms. Sin. Berlin* 1, with documents granting foreign merchants permission to import certain goods into Chinese markets) and that they employed Turks as carriers." Martin Hartmann, article on China, *Encyc. of Islām*, p. 839.
- ⁶ Menander Protector, *Fragments*, tr. by Yule, and given in his *Cathay*, Vol. I., p. 207, London (1915). Menander flourished about the end of the 6th century A.D.

to the establishment of silk-culture in the Roman territory¹. But this only relieved the Persian hold on silk, while the other precious commodities, indispensable to the luxurious empire of Rome², had yet to come from the East, and from the East through Persian hands. For the ports of India had already been captured and Yemen was now to become territorially a Persian colony.

The decline of the Himyarites, which began soon after the commencement of the fifth century of the Christian era, reached its climax in 523 A.D. when Dhū Nuwas, King of Yemen, embraced Judaism, and by massacring some twenty thousand Christians of Najran, compelled the Christian ruler of Abyssinia to intervene on • behalf of his co-religionists. A large army was sent over, Dhū Nuwas was destroyed, and Yemen annexed. But the exchange of masters proved oppressive, and as one Abyssinian despot succeeded another, the Himvarites turned in despair to Saif, the son of Dhū Yazan, and gave him carte blanche to procure help from either the Byzantine empire or the Persian. Byzantium, however, offered nothing, whilst Mada'in made only a personal present of a robe of honour and ten thousand dirhams. Dhū Yazan cast the gold in handfuls amongst the retainers of the King, and when recalled for an explanation, "what else should I do with it," answered he. "the mountains of my land whence I come consist only of gold and And the cupidity of Nūshīrwān was aroused, and he

¹ Procopius, De Bello Gothico, tr. by Yule, and given in his Cathay, Vol. 1., pp. 203-204, London (1915).

^{2 &}quot;There commeth not fo much Incense of one whole years increase in Saba, as the Emperor Nero spent in one day, when he burnt the corps of his wise, Poppea....And surely our pleasures, our delights, and our women together, are so costly vnto vs, that there is not a yeare goeth ouer our heads, but what in pearles, persumes, and silkes, India, the Seres, and that demy-Island of Arabia, stands vs at the least in an hundred millions of Sesterces, and so much setch they from vs in good money, within the compasse of our Empire. But of all this masse of Spice and Odors, how much (I pray you) commeth to the seruice of the coelestial gods, in comparison of that which is burnt at sunerals, to the spirits infernale." Pliny, Natural History (77 A.D.), Bk. XII., Ch. XVIII., tr. P. Holland, pp. 371-372, London (1601).

detained the envoy, and reconsidered the matter. Then said one of his counsellors, "O King, in thy prison are men whom thou hast cast into fetters to put them to death; canst thou not give him these? If they perish, then is thy purpose fulfilled; but if they take the country, then is thy lordship increased."

"This ingenious plan," says Prof. Browne, "for combining Imperial expansion with domestic economy was enthusiastically approved, and an examination of the prisons produced eight hundred condemned felons, who were forthwith placed under the command of a superannuated general, named Wahriz, so old that, as the story runs, his eyelids drooped over his eyes, and must needs be bound or held up when he wished to shoot." When Saif, the son of Dhū Yazan, saw the strength of the expeditionary force, "what can these few avail against the many Abyssinians?" said he. And the King said, "A little fire is enough to burn a great deal of firewood." And Dhū Yazan, who had talked of mountains of silver and gold in his land, wisely refrained from further argument.

Oriental history is not unanimous on the strength of the expeditionary force: Tabari's eight hundred men³ are raised by Hamza to eight hundred and nine⁴, and by the Nihāyatu 'l-Irab to three thousand six hundred⁵. Nevertheless, all authorities are agreed that the journey was not made by land but by sea. "There were eight ships," says Tabarī, "and in each ship a hundred men. And they put out to sea. Of the eight ships two were wrecked; the other six sailed safely and appeared at the shore of Hadramawt⁶." Similarly, Hamza says that "they sailed in eight ships, of which

¹ E. G. Browne, A Literary History of Persia, Vol. I., pp. 179-180, London (1908).

² Ḥamza of Iṣfahān, Annals, ed. Gottwaldt, p. 59, Leipsic (1844).

⁸ Tabarī, *Annals*, ed. de Goeje, I., p. 953 (1879–1881).

⁴ Hamza of Isfahān, Annals, ed. Gottwaldt, p. 59, Leipsic (1844).

⁵ E. G. Browne's article on the Nihāyatu 'l-Irab, J.R.A.S. (1900), p. 229.

⁶ Tabarī, Annals, ed. de Goeje, I., p. 953:

و امرا بحملهم في سفائن في كل سفينة مائة رجل فركبوا البحر فغرقت من الثماني السفن سفينتان و سلبت ستّ فخرجوا بساحل حَضَرمُوتُ

two suffered shipwreck and six reached the coast¹;" and he adds that "the majority of the prisoners were descendants of Sāsān, and Bahman; and Ibn Isfandiyār²." The Nihūyatu'l-Irab says that there were seven ships³, while, according to ath-Tha'ālibī, "Wahriz accompanied by Saif, the son of Dhū Yazan, embarked at Ubullah for Yemen, and sailed on a boisterous sea till he reached the coast of Hadramawt⁴."

It will be seen that the historians, though agreeing on the main issue, differ slightly in detail, and these petty differences are valuable, because, out of them, a coherent narrative can be constructed. If there were altogether eight ships and eight hundred • men, and a hundred men to a ship, as Tabarī states, then of necessity the ships must have been manned by the convicts themselves; and since, according to Hamza, the majority of the convicts were Persians, it follows that the ships were largely manned by a Persian crew. Ath-Tha alibī gives Ubullah as the port of embarkation, and this seems natural, for Ubullah was the nearest sea-port to Ctesiphon, the Sāsānian eapital. The port of landing is not specified, but it could hardly have been any other than Ocelis⁵, for Pliny states on the authority of Onesieritus that Ocelis was the most convenient port for those coming from India6, and the Periplus declares that Ocelis was "the first landing for those sailing into the Gulf," that is, the Gulf of Aden.

But to proceed with the narrative, it appears that on landing

¹ Hamza of Isfahān, Annals, ed. Gottwaldt, p. 59.

² Idem.

³ E. G. Browne's article on the Nihāyatu 'l-Irab, J.R.A.S. (1900), p. 229.

⁴ Ath-Tha'ālibī, Histoire des Rois des Perses, ed. Zotenberg, p. 617, Paris (1900):

⁵ "Ocelis is identified by Glaser with a bay on the northern side of the promontory of Sheikh Said (12° 48′ N., 43° 28′ E.)." The Periplus of the Erythraean Sea, ed. Schoff, p. 115.

⁶ Pliny, Natural History, Bk. VI., p. 104.

Wahriz was joined by a large reinforcement of the Yemenite Arabs. Two of his ships had gone down on the voyage with all hands on board, and the remaining six were now burnt and the stores cast into the sea. "You've laid hands on our food," said the troops, "and given it to the fishes." "If you live," retorted Wahriz, "you'll eat the fishes; and if you dont live you wont bother about the loss of food."

And so having "literally burnt his boats," Wahriz proceeded to give battle. The Abyssinian King, Masrūq, had come out with his hosts, and was rendered conspicuous by an immense ruby which blazed on his forehead. Wahriz took aim, and drew a good long bow, and shot an arrow, and on the instant the ruby burst, and the ruby-drops rushed out and stood on the forehead of the Abyssinian King. And this was the beginning of Persian rule in Yemen.

No definite date has yet been assigned to the conquest of Yemen, but as it occurred in the reign of Nūshīrwān¹ it must have been before 579 A.D., the date of Nūshīrwān's death; and since it occurred also in the reign of Masrūq, it must have been after 570 A.D., when the Prophet Muḥammad was born, and when Abraha, the father of Masrūq, was miraculously slain with his hosts before the walls of Mecca. Between Abraha and Masrūq there intervenes the reign of Yaqsūm so that, as Prof. Browne says, it must have been shortly before the death of Nūshīrwān that Yemen was conquered.

Yemen remained with Persia till 628 A.D. "In that year Bādhān, the Persian governor, received instructions from Khusraw Parwīz to obtain information regarding the Prophet of Arabia. But before this could be done Parwīz had fallen and Bādhān was now free to choose a protectorate more congenial to his people. He therefore gladly recognized the rising fortunes of Islām, and signified his adhesion to the Prophet²."

¹ Mr G. P. Badger states in his introduction (p. 11) to the *Imâms and Seyyids* of 'Omân that "Chosroes Parwiz sent a large army into Yemen under Wahraz, who subdued that country"!

² W. Muir, Life of Mohammad, p. 371, Edinburgh (1923).

Both Muir and Browne agree in regarding Bādhān as the last Persian governor of Yemen.

"Yaman became a Persian province," says Prof. Browne, "governed first by its conqueror, Wahriz (and for a part of his lifetime by Sayf), then by his son, grandson, and great-grandson, and lastly, in the time of Muḥammad by a Persian named Bádhán of another family. Even in early Muhammadan days we hear much of the Banū'l-Aḥrár, or 'Sons of the Noble,' as the Persian settlers in Yaman were called by the Arabs¹."

A slightly different version is given by Ḥamza.

"The kingdom of Yemen," says he, "passed after the death of Saif son of Dhū Yazan to Wahriz; then to Walīsjān وليسجان; then to Ḥarzādān Shahr; then to Alnūshjān ورزادان شبر; then to Marwzān مروزان, the son of Sāsān Aljarūn; the son of Sāsān Aljarūn; who administered Yemen in the name of Khusraw Parwīz.... After Bādhān, Dādūya مارون, the son of Hurmuz the son of Fīrūz, ruled Yemen....These eight Persians governed Yemen after it was taken away from Ḥimyar; the first was Wahriz, the last was Dādūya—and the Quraish took over the kingdom of Yemen from Dādūya. The offspring of these eight Persians remain in the districts and provinces of Yemen till today²."

This is all the relevant information about Yemen. Judged by the length of the voyage, the composition of the crew, the smallness of the fleet, the age and enterprise of the admiral, and the resources and the strength of the enemy, the conquest of Yemen is the most laudable achievement of the Sāsānian empire in the Indian Ocean. Eight hundred convicts and a superannuated general were sent to their death on the open sea, and they conquered a land which had been the residence of navigators in all ages³, and which a Roman army sent by a resolute emperor⁴ had not been able to subdue. And the Persians had not merely raided Yemen but conquered it

¹ E. G. Browne, A Literary History of Persia, Vol. I., p. 181, London (1908).

² Hamza of Isfahān, Annals, p. 139, ed. Gottwaldt.

⁸ W. Vincent, The Commerce and Navigation of the Ancients in the Indian Ocean, Vol. II., p. 63, London (1807).

⁴ Strabo: "The Emperor Augustus was determined either to make the Ethiopians and the Arabs his allies or to subdue them." Vide A. Sprenger, The Campaign of Ælius Gallus in Arabia, J.R.A.S. (1872), pp. 121-122.

permanently, so that they retained it as a colony till the fall of their empire.

And since the Horn of Africa had been, by its geographical position, a Himyarite principality, and since, moreover, the Sāsānian navigator was essentially a merchant, the inducement for the Persian governor of Yemen to extend his influence over the African coast must have been almost irresistible. "There can be little doubt," says Major Pearce, "that the Persians or Shīrāzīs, who arrived on the east coast of Africa at a very early date—Prof. Stuhlmann, for instance, says towards the close of the sixth century—introduced the art of building in stone, the production of lime and cement, wood-carving, and the weaving of cotton." But, be that as it may, the establishment of a Persian government in Yemen could have had but one consequence—the transfer of the immemorial traffic between India and Egypt into the hands of Persia.

It is necessary to recall the fact that the Sāsānian Government had similarly annihilated Arabian commerce in the Gulf of Persia. Shāpūr Dhū 'l-aktāf, indeed, had not merely avenged himself on the Arabs of the southern shore of the Persian Gulf but had made Baḥrain and the adjacent territory an integral part of the Sāsānian empire. The Arabs were expatriated and replaced by Persian colonists and the conquered lands placed under the administration of marzubāns or "Wardens of the Marches." There is the evidence of al-Balādhurī who died in 892 A.D., that at the time of the Prophet Muḥammad the province of Baḥrain belonged to the kingdom of Persia and that the inhabitants thereof, comprising Magians, Jews, Christians and the Arabs of 'Abdu'l-Qais, Bakr b. Wā'il, and Tamīm, were under the dual control of al-Mundhir bin

قالوا وكانت ارض البحرين من مملكة الفرس

⁵ Idem, p. 78:

اهل الارض من الهجوس واليهود والنصاري

¹ F. B. Pearce, Zanzibar, p. 351, London (1920).

² Tabarī, Annals, ed. de Goeje, I., p. 839.

⁸ al-Balādhurī, Kitābu futūḥi 'l-buldān, ed. de Goeje, pp. 78, 79, 80, 85.

⁴ Idem, p. 78:

سيبخت مرزبان هَجر

Sāwī and 'Abdu'llāh bin Zaid, marzubāns of the Sāsānian king¹. And even in the eighth year A.H. Hajar or the district of Baḥrain was under a Persian marzubān, Sībukht by name², whilst another Persian marzubān, Fīrūz the son of Jushaish, held out in Zāra as late as the caliphate of 'Umar³. Nor was 'Umān devoid of a Persian population, for, according to al-Balādhurī, the Prophet ordered Abū Zaid to take alms from the Muslims and the poll-tax from the Magians⁴. Towards the close of the sixth century, therefore, the Persian Gulf and the Arabian Sea were exclusively Persian, and the trade-routes, both on sea and land, which connected the Eastern and the Western worlds could only pass through the territories of the Great King.

So far the written evidence of history. But the written record is not the only source of history and there is the evidence of philology that Sāsānian navigation extended far beyond Ccylon and the limits of Ḥimyarite enterprise to Sumatra and the ports of China. And the assiduity of M. Gabriel Ferrand has made this evidence complete, precise, and conclusive.

"The part played by the Arabs," says he, "in the establishment and development of maritime relations between the Persian Gulf ports and the Far East has, I think, been greatly exaggerated. It seems most likely that they simply followed the route opened by the Persians, from whom they borrowed the significant word $n\bar{a}khudh\bar{a}^5$, ship's captain, which passed into Arabic in the same orthography and the same sense. $Baghb\bar{u}r$, according to Ibn Khurdādhbihd0, or $Faghf\bar{u}r$, is according to Mas'd0, and Abd1d1d1, which

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<sup>1</sup> al-Balādhurī, Kitābu futūḥi 'l-buldān, ed. de Goeje, p. 78.
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² Idem, p. 78:

⁸ Idem, p. 85:

قالوا و تحصَّن المِكْعَبرَ الفارسي صاحب كسري.....و اسهه فيروُز بن جُشيَش بالزَّارِةَ

^{*} Idem, p. 77:

رسول الله صلعم قال لابي زيد خذ الصدقة من المسلمين و الجزية من المجوس

⁵ ناوه or ناو + (master) خدا (ship).

⁶ Ibn <u>Khurdādh</u>bih, tr. de Goeje, p. 12.

⁷ Mas'ūdī, Murūju 'dh-Dhahab (Les Prairies d'Or), ed. B. de Meynard, Vol. I., p. 306, Paris (1864).

describes the emperor of China, is nothing less than the Arabian form of the Persian Baghpūr, son of God, a translation of the Chinese expression Tien-tseu, son of Heaven. The following list of toponyms used in Arabic texts—ديبات Dībajāt, the general term for the Laccadives and the Maldives; خيبات Khushnāmī, the name of a mountain in the Andaman archipelago?; مندر فولات Şundur-fūlāt, Poulo Condore³,—all come from Persian toponymy.

suffix -jat, signifies, literally, the islands. خشنامی <u>Khushnāmī</u> is an ethnic term from the Persian compound خشنامی <u>khush</u>, agreeable, and المنامة <u>khush</u>, agreeable, and المنامة <u>nāma</u>, name; literally (the mountain) of the agreeable name, or the name of good omen. Fūlāt وولات is a compound from فولات fūl, < Malay والمنامة والمنا

Cinnamon is called in Arabic $d\bar{a}r$ $\bar{s}\bar{i}n\bar{i}$ \bar{s} $\bar{$

¹ Sulaimān, Silsilatu 't-Tawārīkh (سلسلة التواريخ), published by M. Reinaud in his Relation des Voyages, Vol. II., p. 7, Paris (1845):

و [سرندیب] راس هذه الجزایر كلها و هم یدعونها الدیبجات

² Idem, p. 11:

و انها دل عليها جبل منها يقال له الخُشنامي

³ Idem, p. 20:

فاذا استعذبوا منها خطفوا الى موضع يقال له صندر فولات

⁴ F. Hirth and W. W. Rockhill, Chau Ju-kua, his work on the Chinese and Arab trade in the twelfth and thirteenth centuries, entitled Chu-fan-chi, translated and annotated, pp. 7-8, St Petersburg (1911).

East Africa and the negroes who live there is زنجي or زنجي (anc. pron. zang, zang $\bar{\imath}$; mod. pron. zanj, zanj $\bar{\imath}$) and is borrowed from the Persian زنگی زنگ zang, zang $\bar{\imath}$. Finally, the Chinese know the Arabs under the name Ta-shi which is nothing more than the Persian تاری $T\bar{a}\bar{\jmath}\bar{\imath}k$; it was therefore the Persians who made the Arabs known in China under the same name by which in earlier times they had called the Arabs themselves²....

We do not possess for this particular period any evidence proving that Arab ships sailed in those days to China. There is every reason to believe, therefore, that voyages made before the ninth century were made solely by Persian sailors, and that the Persians were the initiators of the Arabs in trade with the Far East³. Unfortunately, not one of the Persian accounts dealing with these voyages has come down to us⁴."

- To this exhaustive information a single word has to be added: the Arabic $b\bar{u}s$, or $b\bar{u}s\bar{s}$ is the Persian $b\bar{u}z\bar{s}$ or ship. Says the dictionary $T\bar{a}ju$ 'l-'Arūs:
 - " $B\bar{u}\bar{s}\bar{\iota}$ is a kind of ship, and is an Arabicised word. Jawharī has used this word, and has cited the following verse of Λ 'shā in support:
 - 'Like the water of the Euphrates which overthrows, when it is boisterous, the ship and the swimmer.'

And some one has said⁵:

'Like the stern of a ship in motion on the Tigris.'

- ¹ Abū Zaid al-Ḥasan of Sīrāf, Silsilatu 't-Tawārīkh, published by M. Reinaud in his Relation des Voyages, Vol. II., p. 131, Paris (1845).
 - ² Cf. Yule, Cathay and the Way Thither, Vol. I., p. 88, London (1915):
- "The Arabs were known by the Chinese as the Tazi or Ta shi (Ta shi is but a transcription of the Persian $T\bar{a}z\bar{\imath}$ or $T\bar{a}j\bar{\imath}k$); the Arabs were, therefore, made known to the Chinese by the Persians; this fact seems to prove the priority of the travels of the Persians."

But not necessarily the priority of Persian travel by sea.

- ⁸ "According to an interesting text of the Tjams of Cambodia (Delaporte, Voyage au Cambodge, Paris (1880), p. 417 et seq.), Nao Savan (Nūshīrwān), the divine inao (youth), the first king of the Tjams, was the inventor of the alphabet which is still used in profane books."
- ⁴ Gabriel Ferrand, Relations de Voyages et Textes Géographiques, Arabes, Persans et Turks, relatifs à l'Extrême-Orient, du VIII au XVIII siècles, Introduction, Vol. I., pp. 1-3, Paris (1913).
 - 5 i.e., the poet Tarafah, in the Sab'al-Mu'allaqat.

Abū 'Ubaid has used $b\bar{u}s\bar{\imath}$ in the sense of a boat; but Ibn Sīdah condemns this use of the word as incorrect. Some have declared that $b\bar{u}s\bar{\imath}$ means a sailor; and have attributed this meaning to the (above-mentioned) couplet of A'shā. Abū 'Amr (ibnu 'l-'Alā') says that $b\bar{u}s\bar{\imath}$ means a boat, and not a sailor. In Persian, the word is $b\bar{u}z\bar{\imath}$ …

The value of the word, however, does not lie merely in its origin. Its use by Tarafah, who died before the rise of Islām in 564 A.D.², indicates the existence of pre-Muḥammadan Persian ships; and its use by Tarafah, who was not a sailor, indicates, in addition, the reputation of these ships. Consequently, like the Tāju 'l-'Arūs, the al-Mu'arrab min Kalāmi 'l-'Ajam of Jawālīqī defines būṣī, not as a zawrag or boat, but as a safīnah or ship:

" $B\bar{u}_{\bar{s}}\bar{i}$ is a kind of ship, and in Persian it is called $b\bar{u}z\bar{i}$; the Arabs have used this word in olden times⁸..."

But to proceed. With the exception of the word $Ta \ shi^4$, the ¹ The $T\bar{a}ju$ 'l-' $Ar\bar{u}s$, under $B\bar{u}s$:

[و البوصى بالضرضوب من السفن معوب] نقله الجوهوي و الشد للاعشي مثل الفراتي اذا ماطها يقذف بالبوصي و الهاهو و قال غيره كسكان بوصى بدجله مصعد

و عبر أبو عبيد عنه بالزورق قال ابن سيده و هو خطا و قيل البوصى الملاح و هو أحد القولين في قول الأعشى و قال أبو عمر و البوصى الزورق و ليس بالملاح و هو بالفارسية [بوزي]

² Vide <u>Sh</u>uʻarā' u 'n-Naṣrānīyah, p. 307.

⁴ "The Western Iranians, or Persians proper, are everywhere throughout Central Asia known exclusively as Tajiks, and in West Irania as Tats, possibly a contracted form of the same word." A. H. Keane, *Asia*, Vol. II., p. 490, London (1909).

"Tājīk is the Middle Persian form of the Aramaic ṭaiyāyē, properly 'Arab of the tribe of Ṭai.' The change in meaning is explained by the fact that once the Muḥammadan Ṭai Arabs were regarded by one body of Persians as representatives of the Arab world, their name was extended to all Arabs and thus came to mean 'Arab' or Muslim....

D'Ollone draws conclusions from the mention of the ta-shi 'Arabs' = Muslims under the Tang and of the Hui-ho under the Liao and Chin dynasties; but

linguistic material presented by M. Ferrand has not been impeached. but his acceptance of the conclusion of Hirth and Rockhill that "from the end of the fourth to the beginning of the seventh centuries, all the products of Indo-China, Ceylon, India, Arabia, and the east coast of Africa, were called 'products of Po-se,' that is to say. of Persia," has met with destructive criticism from Mr Berthold Laufer, who points out that besides the Iranian Po-se the Chinese were also acquainted with a Malayan Po-se, and that for several reasons Po-se cannot be here rendered by Persia. Firstly, because the Kwan čou ki (written under the Tsin dynasty, A.D. 265-419), as quoted in the Čen lei pen ts'ao, states that alum with gold threads is produced in the country $Po-se^1$, and secondly because the Kukin ču (written by Ts'ui Pao in the fourth century A.D.), as quoted in the Pen ts'ao kan mu, states that ebony is conveyed to China on Po-se ships². Obviously, Po-se cannot here be Persia, for, on the one hand, neither alum nor ebony is produced in Persia, and, on the other, the Chinese themselves had no knowledge of an Iranian Po-se before 461 A.D., the date of the arrival of the first Persian embassy to China, that is, to the court of the Wei. Similarly, the Yu yan tsa tsu states that the lac tree is produced in Camboja and in Po-se, and that the Po-se envoys agreed with the Camboja envoys in pronouncing K'un-lun lac as superior to that of Po-se3. Now Mr Laufer argues from the non-existence of the lac insect in Persia, and from the conjoint arrival of the Po-se and Camboja envoys, and the opposition of Po-se to the Malayan K'un-lun, that the Po-se here intended cannot be the Persian Po-se. Similarly, Mr Laufer contends that the camphor ascribed to Po-se by the Yu yan tsa tsu and interpreted by Hirth as being conveyed to China by Persian ships4, the aloes described by Li Sun of the Tang period as growing in the country Po-se and mentioned by Su Sun of the

this only points to a knowledge of the Muslims of the West and is no proof of Muslim immigration." Martin Hartmann, article on China, in the Encyclopaedia of Islām. See also, Gerini, Researches on Ptolemy's Geography of Eastern Asia.

¹ Berthold Laufer, Sino-Iranica, p. 475, Chicago (1919).

² Idem, p. 485. ⁸ Idem, pp. 476–477. ⁴ Idem, pp. 478–479.

Sung period as being shipped to Canton¹, the wild walnuts mentioned in the Pei hu lu (written about 875 A.D. by Twan Kunlu) as gathered and eaten by the Po-se², and finally, the drug identified with Psoralea corylifolia, the dye of the tree Semecarpus anacardium, the Po-se pepper recorded by Su Kuń of the Tang³, and the Po-se myrrh mentioned in the Nan čou ki of Sü Piao (written before the fifth century A.D.)⁴—all of these have reference to the Malayan Po-se exclusively. Therefore, "I disagree entirely," says Mr Laufer, "with the conclusion of Hirth and Rockhill.... This is a rather grotesque generalisation inspired by a misconception of the term Po-se and the Po-se texts of the Wei šu and Sui šu. The latter do not speak at all of any importation of Persian goods to China, but merely give a descriptive list of the articles to be found in Persia."

On the other hand, the reasoning of Mr Laufer himself is not entirely faultless. Firstly, because Hirth and Rockhill are themselves aware of the ambiguity of the word *Po-se* (*Chau Ju-kua*, p. 280):

"Po-ssi, Persia, the Persians; Po-ssi, a country or tribe of Negritos, possibly in Sumatra."

Secondly, because the *Kwan čou ki* and the *Ku kin ču* have been written *before* the end of the fourth century A.D., and are therefore covered by the reservation of Hirth and Rockhill (*Chau Ju-kua*, pp. 7-8):

"In (Chinese) dynastic histories covering the period from the end of the fourth to the beginning of the seventh centuries, we find all the products of Indo-China, Ceylon, India, Arabia, and the east coast of Africa classed as products of Persia (Po-ssi), the country of the majority of the traders who brought these goods to China."

And finally, because a little lower down Hirth and Rockhill have modified their own conclusion as follows (*Chau Ju-kua*, n. 1, p. 16): "The *Wei-shu*, 102, the history of the period between 385 and 556, and written prior to 572, mentions among the products of Po-ssi (Persia),—by which it

¹ Berthold Laufer, Sino-Iranica, pp. 480, Chicago (1919).

² Idem, p. 479. ⁸ Idem, p. 479. ⁴ Idem, p. 460.

seems probable should be understood products brought or made known to China by Persians—coral, amber, cornelians, pearls, glass, both transparent and opaque, rock-crystal, diamonds (fkin-k'ang), steel, cinnabar, quicksilver, frankincense, turmeric, storax, putchuk, damasks, brocaded muslins, black pepper, long peppers, dates, aconite, gall nuts and galangal. The Sui-shu, 83, which relates the events of the period extending from 581 to 617, and which was certainly written before 650, reproduces substantially the above list of Persian products, to which it adds gold, silver, tush, lead, sandalwood, various tissues, sugar, and indigo. Most of the products came, of course, from India or from countries of south-eastern Asia, only a few being products of Arabia or of countries bordering on the Persian Gulf."

Therefore, in their contrary zeal, Mr Berthold Laufer and M. Gabriel Ferrand have alike overlooked the difference between the certainty:

"products of Persia (Po-ssi), the country of the majority of the traders who brought these goods to China,"

and the probability:

"products of Po-ssi (Persia),—by which it seems probable should be understood products brought or made known to China by Persians."

¹ Gabriel Ferrand, L'Élément Persan dans les Textes Nautiques Arabes, Journal Asiatique, pp. 193-257, Avril-Juin, 1924.

read as البيزان derived from the Persian عيزان. Finally the Arabic i.e. a point of the compass, is an abbreviation of the Persian, even as a long a is shortened in several words in modern Persian.

"These terms," says M. Ferrand¹, "are not interesting solely to lexicographers. They have a wider meaning and should be remembered by the historian.... The use of three Persian points, namely, "i, tīr, gāh, salbār, among Arab names for the compass can hardly be explained otherwise than by borrowing from the Persian compass. That these names of Persian points are the only ones preserved may be better explained in my opinion by the fact that the Arabs modified the names of a Persian compass, than by the existence of a compass with a set of Arab names into which some Persian names of points were introduced. The second conjecture is far less probable than the first. Furthermore, the etymology of the nautical Arab "i, a point of the compass, which corresponds to the Persian "ich nouse, is not less conclusive....

The majority of these borrowings have a common character. Geographical or diplomatic terms like zang and baghbūr were adopted by the Arabs, because they were already in use at the time when, following the Persians, the Arabs reached the east coast of Africa and the Far East. It is not because the Arabic language, which is extremely rich, is ignorant of these terms and does not possess equivalents... غند khann could have been translated as بالمنافى qutbu 'bjāh also has the Arabic name تطب الحاء qutbu 'bjāh also has the Arabic name تطب الحاء and names of certain (other) points of the compass might equally well have been Arabic, not Persian²."

After having made out such a strong case on the basis of solid facts there was no need for M. Ferrand to resort to negative reasoning of questionable value. On the basis of Ibn Khaldūn's statement that "most of the learned men who distinguished themselves amongst the Muslims were foreigners, and that the Muslims of the early centuries were totally ignorant of science and art because their simple and rude civilization had developed in the desert³" the inference is drawn that "the people of a simple and

¹ Gabriel Ferrand, L'Élément Persan dans les Textes Nautiques Arabes, Journal Asiatique, pp. 234-235, Avril-Juin, 1924.

² Idem, p. 244.

⁸ Ibn <u>Kh</u>aldūn, *Prolegomena*, tr. de Slane, Vol. III., pp. 296–297 (1868).

rude civilization were not in a condition to apply astronomy to navigation or to undertake long voyages to China and the Malaya Peninsula¹." There was an essential difference, however, in pre-Islamic times between the Arab of the desert and the Arab of the coast²—the former was a brigand and a wanderer of the waste; the latter, a born sailor and the heir to a great and ancient civilization. And it would be a grave error to estimate Sāsānian navigation without acknowledging the share of the Arab merchant who had made the Indian Ocean safe and familiar by climbing upon the climbing wave annually for a thousand years. Why this voyage terminated abruptly at Ceylon and why it was left to the Sāsānians to push ahead to China has not yet been investigated, but the reason given by M. Ferrand is clearly inadmissible. For the Sabaean Arab was neither rude nor simple, and his kingdom was the envy alike of the Ptolemies and the Romans.

Meanwhile the power of Persia had also increased on land, and in the year 540 A.D. Nūshīrwān sacked Antioch and bathed in the waters of the Mediterranean Sea. Shortly after this, in the winter of 540-541 A.D., envoys came from Lazica³, a province on the Black Sea, and solicited the aid of Nūshīrwān against the exactions of the Romans. "To the realm of Persia you will add a most ancient kingdom," said they, "and as a result of this you will have the power of your sway extended, and it will come about that you will have a part in the sea of the Romans through our land, and after thou hast built ships in this sea, O King, it will be possible for thee with no trouble to set foot in the palace in Byzantium. And one might add that the plundering of the land of the Romans every year by the barbarians along the boundary will be under our control. For surely you also are acquainted with the fact that till now the land of the Lazi has been a bulwark against the Caucasus

¹ Gabriel Ferrand, L'Élément Persan dans les Textes Nautiques Arabes, Journal Asiatique, p. 247, Avril-Juin, 1924.

² William Vincent, The Commerce and Navigation of the Ancients in the Indian Ocean, Vol. II., p. 480.

^{3 &}quot;The ancient Colchis, or the modern Mingrelia and Imeritia."

mountains¹." Nüshīrwān acceded to the request of the envoys—and Lazica became Persian territory.

Within a few years, however, Nushīrwān began to feel that the removal of the Lazi and the Lazic King was a sine qua non for a permanent annexation. And "most of all he hoped that the subjugation of Lazica would afford this advantage to the Persians, that starting from there they might overrun with no trouble both by land and sea the Euxine Sea as it is called, and thus win over the Cappadocians, and the Galatians, and Bithynians who adjoin them, and capture Byzantium by a sudden assault with no one opposing them. For these reasons, ithen, Chosroes was anxious to gain possession of Lazica²."

And as Nūshīrwān hoped so he acted.

"His first move against Lazica was as follows. He sent into the country a great amount of lumber, suitable for the construction of ships, explaining to no one what his purpose was in so doing but ostensibly he was sending it in order to set up engines of war on the fortifications of Petra. Next he chose out three hundred able warriors of the Persians, and sent them there under the command of Phabrizus, ordering him to make away with Goubazes (the Lazic King) as secretly as possible; as for the rest he himself would take care. Now when this lumber had been conveyed to Lazica it happened that it was struck suddenly by lightning and reduced to ashes³."

Phabrizus, moreover, failed completely, and the Lazi accepted Roman protection once again as the lesser evil, and Nüshīrwān, after fighting incessantly for nine years (549-557 A.D.), was compelled to make a truce, and even to waive his claims to Lazica, in return for an annual subsidy of thirty thousand pieces of gold. And so ended the Lazic war in 562 A.D.

The failure of Nüshīrwān to construct a naval station at the mouth of the Phasis and to command the shipping of the Black Sea made the expansion of Sāsānian Persia in Europe for ever impossible. Egypt was conquered by Shahr-Barz in 616 a.D. and

¹ Procopius, De Bello Persico, Bk. II., xv., 27-30, tr. H. B. Dewing, p. 395.

² Idem, Bk. 11., xxv111., 23, tr. p. 521.

⁸ Idem, Bk. 11., XXIX., 1-2, tr. p. 529.

Chalcedon fell before Shāhīn in 617 a.D. but the loss of Lazica remained irreparable. For the Romans, though cabined, cribbed, confined, had yet the command of the sea; and the Persians, though they retained Chalcedon for a decade, could not, because of the absence of shipping, resist the naval preparations, which were going on before their eyes, to ravage the Persian territory. In 622 a.D. Heraclius sailed from Byzantium and crossed the Aegean Sea and landed at Issus, and in 623 a.D. he sailed from Byzantium and crossed the Black Sea and landed in Lazica, and both voyages were unmolested, and the result of either voyage, the defeat and dispersal of a Persian army. And while Khusraw Parwīz maintained his hold on Egypt, Syria and Asia Minor, Heraclius plundered with impunity the Persian territory, from Urumia to Cilicia (624–625 a.D.).

"Khusraw Parviz was now driven to despair and formed an alliance with the Khan of the Avars and begged them to attack the imperial city. But though the Avars invested Byzantium the Persians still remained at Chalcedon. The narrow channel which flowed between Chalcedon and the Golden Horn proved an insurmountable barrier; the Persians had no ships, and the canoes of the Slavonians were quite unable to contend with the powerful galleys of the Byzantines, so that the transport of a body of Persian troops from Asia to Europe by their aid proved impracticable. Shahr-Barz had the annoyance of witnessing the efforts and defeat of his allies, without having it in his power to take any active steps towards assisting the one or hindering the other."

And so the record of Sāsānian navigation in the Mediterranean Sea is limited to one solitary attempt to cross the Bosphorus in the year 626 A.D. The only place ever held by the Sāsānians in Europe was the island of Rhodes, and Rhodes had made a voluntary submission in 620 A.D. through dread of the military exploits of Shāhīn and Shahr-Barz². How very different had been the history of Achaemenian Persia, and how completely had the sea-power of the Great King receded from Europe to Asia.

¹ G. Rawlinson, The Seventh Great Oriental Monarchy, p. 519, London (1876).

² Idem, p. 506.

Before leaving this chapter on Sāsānian navigation it is necessary to give the interesting pictorial evidence which comes from Ajanta. It appears from Tabarī that in the year 625-626 A.D. Khusraw Parwīz had received an embassy from the Indian King Pulakēśin II¹, and though there is no literary record of a return embassy a pictorial record has survived in a mutilated form in Cave I at Ajanta.

"A pale-skinned Raja," says Burgess, "sits in Darbar on a cushion placed on a dais, higher than usual, with a semicircle of green over the middle of the back of it, behind his head, and having a gilt border with little vidyadhara figures on each side of it, and makara's mouths at the corners of the back. From the right three fair bearded men in Iranian costume, with peaked caps and completely clothed, approach him in crouching attitude; the first bearing a string of pearls; the second a jug or bottle (of wine perhaps); and the third a large tray filled with presents. Behind the third stands another figure near the door in white clothing, perhaps the porter, with a stick in his hand and a dagger in his belt, apparently speaking to another Iranian in the doorway, bringing in some present. Behind the porter is another foreigner in full white clothing, with stockings, curled hair, and peaked cap, holding a vessel in his hands, and with a long straight sword at his back....Outside the palace to the right, an Iranian, like the one seen in the door, appears speaking to a green man with

¹ Tabari, Annals, I., p. 1052, ed. de Goeje:

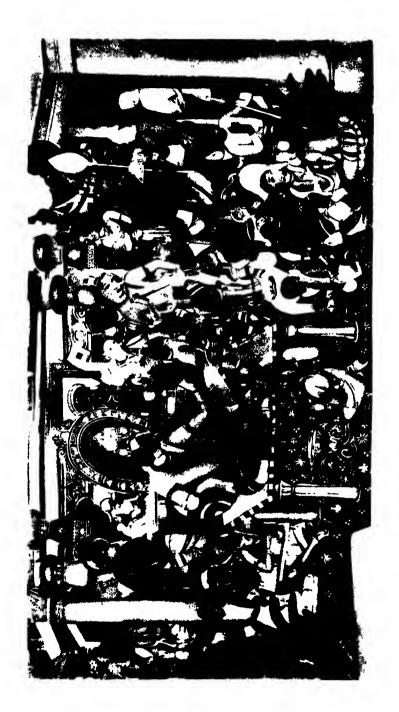
وجدنا فرميشا ملك الهند كتب الينا في سنة ستّ و ثلثين من ملكنا وقد اوفدهم الينا فكتب في امور شتّى و اهدي لنا ولكم معشر ابنائنا هدايا

"We found that Phrmisha, king of India, wrote to us in the 36th year of our reign and he had sent an embassy to us and wrote about various matters and sent presents to us and all our sons."

À propos Phrmisha, Prof. Nöldeke says:

"As the Arabs use Ph for the Persian P and I for the Persian E we must write the name Primesha. At the same time as R and L are written with the same sign in Pehlvi, so is R to be taken as a false mode of expressing L. As M may be substituted for K (Q) in the Arabic, or in the Pehlvi, it follows that the name may be correctly represented in Pehlvi by Pliksa and read as Pulikês'a." Footnote 1, p. 92, Burgess, Notes on the Bauddha Rock-Temples of Ajanta, Bombay (1879), No. 9, Archaeological Survey of Western India.

The thirty-sixth year of the reign of Chosroes (Parwiz) corresponds with 18 June 625 to 17 June 626 A.D. Chosroes was dethroned on the 25th February 628 A.D. and put to death a few days later. (Nöldeke.)



PERSIAN ANTASSA 1 - AT THE COURT OF PULAKESIN II, AJANTA

a stick in his hand. Behind are two horses, and in front of them a sipahi or soldier with a sword¹."

If, as is almost certain, the Indian King represented is Pulakēśin II², the sovereign of the Deccan, an embassy of Persians to him can have come only from Khusraw Parwīz³ who was put to death in A.D. 628. And this embassy, moreover, can have come only by sea, for geographically, the shortest route from Persia to the Deccan was by sea, and politically, the overland route, which lay through the empire of Harsha, was barred, as Harsha had coveted the kingdom of Pulakēśin II and had failed to obtain it by open warfare in 620 A.D.⁴ The fresco painting, therefore, though it contains no reference to the sea, is essentially a record of Persian maritime intercourse with Southern India, during the reign of Khusraw Parwīz.

But there is a sequel to this embassy-picture. Mr Schoff says that "in the cave-paintings at Ajanta, commemorative of the visit of a Persian embassy in the early 7th century, a ship is shown which, if not a junk, is manifestly influenced by that type of vessel⁵." Elsewhere he calls this ship a Persian ship⁶ but his view is not supported by the description of Burgess⁷:

"Between the first and second cell-doors, below, is represented with a conventionalism worthy of the Chinese, a river (perhaps the Gangâ) with many fish and shells in it. A boat with three masts, a jib-sail, and an oar behind, and filled towards the stern with ten *matkas* or earthenware jars, carries a man in it with long hair who is praying. In the heaven behind, Chandra—the Moon, a

- ¹ J. Burgess, Notes on the Bauddha Rock-Temples of Ajanta, pp. 22-23, Bombay (1879), No. 9, Archaeological Survey of Western India.
- ² Vincent A. Smith, A History of Fine Art in India and Ceylon, p. 290, Oxford (1911).
 - 8 Idem.
 - ⁴ Vincent A. Smith, The Early History of India, p. 340, Oxford (1914).
- ⁵ Schoff, in his edition of *The Periplus of the Erythraean Sea*, Notes, pp. 247-248 (1912).
 - ⁶ Idem, p. 244.
- ⁷ J. Burgess, Notes on the Bauddha Rock-Temples of Ajanta, p. 38, Bombay (1879), No. 9, Archaeological Survey of Western India.

figure with a crescent behind him—is represented as coming to him, followed by another figure. A Naga Raja and his wife in the water seem to draw the boat back; and below is represented another similar figure with a human head and long tail in the water. On the left, to which the boat is going, is Buddha on the shore, and a figure worshipping him. On the shores, rocks are conventionally painted."

C. Torr calls the ship at Ajanta by the vague name of a merchant-ship¹, and gives a scattered description, which may be presented collectively as follows:

"The ship is fully rigged and has three masts—a main mast with a yard and a square sail, a foremast or bowsprit with a yard and square sail, and a mizen with perhaps a similar yard and sail². On each bow there is a huge eye, a relic of the sentiment that a ship is a living thing and must see her way; but in course of time they probably were turned to account as hawse-holes for the anchor-cables. The anchors used to be suspended from the catheads a little way abaft of these hawse-holes³.

There is a pair of very large oars at the stern, one on either side⁴, and the steering-oars are fastened to the sides of the ship, just below the gunwale, by tying the loom of the oar between a pair of pegs⁵. The steering-oars could thus be worked like oars for rowing; and while the rowers drove the ship ahead and astern by pulling their oars forward or pushing them aft, the steerer drove her to port and starboard by pulling his oar inboard or pushing it outboard, if he steered with onc, and moving the other in the same direction, if he steered with two⁶."

All the available information about the Ajanta ship has now been given and though it is doubtful whether this ship is Persian it is almost certain that it belongs to the same class as the merchantships of Sāsānian Persia. This type of shipping, indeed, was fairly common in late Sāsānian times in the Indian Ocean, and Schoff gives an illustration of "an Andhra coin, showing a two-masted ship presenting details like those of the Gujarati ship at Boroboedor, and the Persian ship at Ajanta."

With the external evidence of the fresco paintings there must

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<sup>1</sup> C. Torr, Ancient Ships, p. 139, Cambridge (1894).
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² Idem, p. 91. ⁸ Idem, p. 69. ⁴ Idem, p. 74.

⁵ Idem, p. 75. ⁶ Idem, p. 76.

⁷ Schoff, in his edition of The Periplus of the Erythraean Sea, p. 244 (1912).

also be mentioned the internal evidence of the *Boar Hunt* of <u>Kh</u>usraw Parwiz, supplied by a bas-relief at <u>Tāq-i-Bustān</u>, and described in detail by Prof. Rawlinson.

"Elephants, twelve in number, drive the game into an enclosure without exit. Within this space nearly a hundred boars and pigs may be counted. The ground being marshy, the monarch occupies a boat in the centre, and from this transfixes the game with his arrows. No one else takes part in the sport, unless it be the riders on a troop of five elephants, represented in the lower middle portion of the tablet. When the pigs fall they are carried into a second enclosure, that on the right, where they are upturned, disembowelled, and placed across the backs of elephants, which convey them to the abode of the monarch. The scene is enlivened by music. Two bands of harpers occupy boats on either side of that which carries the king, while another harper sits with him in the boat from which he delivers his arrows. In the water about the boats are seen reeds, ducks, and numerous fishes. The oars by which the boats are propelled have a singular resemblance to those which are represented in some of the earliest Assyrian sculptures. Near the top of the tablet towards the left, five figures standing in a boat seem to be clapping their hands in order to drive the pigs towards the monarch; while in the right centre of the picture there is another boat, more highly ornamented than the rest, in which we seem to have a second representation of the king, differing from the first only in the fact that his arrow has flown, and that he is in the act of taking another arrow from an attendant. In this second representation the king's head is surrounded by a nimbus or glory1."

The Boar Hunt, then, is essentially a scene of fresh-water navigation, containing in all five round boats, which correspond closely with Assyrian boats and with the kufas in use upon the Tigris and Euphrates at the present day². One of the boats in the Boar Hunt carries seven men, with a rower at the stem and another at the stern, and either rower facing in the same direction. Two other boats have only one rower each, but the total number of men in one is six, and in the other five. The remaining two boats are royal boats, and carry five men each, inclusive of the two rowers in

¹ G. Rawlinson, The Seventh Great Oriental Monarchy, pp. 615-616, London (1876).

² G. Rawlinson, The Five Great Monarchies of the Ancient World, Vol. II., p. 172, London (1864).

each boat who face in opposite directions. This unusual mode of rowing recalls the fresh-water navigation of early Assyrian times, which involved a pulling at the stem with a simultaneous pushing at the stern. Furthermore, all the oars are short poles terminating in a head shaped like a small axe or hammer, and resemble early Assyrian oars, as Prof. Rawlinson has pointed out. The nautical element in the *Boar Hunt*, therefore, is largely, if not exclusively, Assyrian.

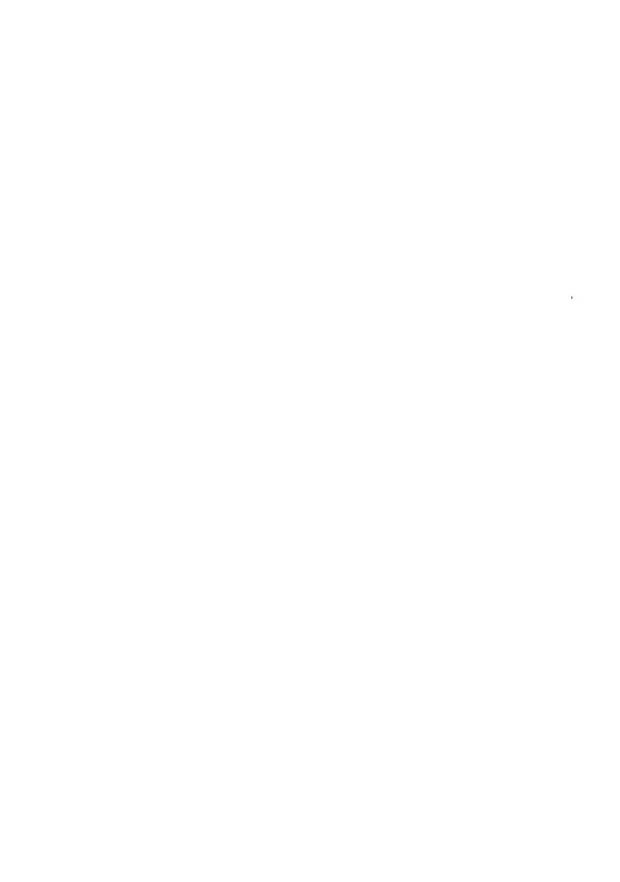
This correspondence is more than a mere coincidence. Why should a nation which had opened the sea-route to China and supplanted the Arab and the Hindu and the Roman trader in the Indian Ocean have continued the use of Assyrian boats on inland streams and marshes, and pulled and pushed them with the primitive axe-headed poles of Assyria? The evidence of Persian art is obviously irreconcilable with the written evidence of history, and it follows, therefore, that either the artist had never had an intimate knowledge of the sea, or else he has deliberately sacrificed truth to convention.

"There are plenty of pictures of ships," says C. Torr, "on painted vases and in frescoes and mosaics...for they were constantly in favour with the artists of antiquity. But these works of art must all be taken at a discount. In dealing with so large a subject as a ship, an ancient artist would seize upon some characteristic, and give prominence to this by suppressing other features; and then would modify the whole design to suit the space at his disposal. Moreover, the treatment would vary with the form of art, painters and sculptors seeing things from different points of view; and it would vary also with the period, as art went through its phases. So, works of art may easily be taken to imply a difference in the ships themselves, when the difference is only in the mode of representing them²."

¹ G. Rawlinson, The Five Great Monarchies of the Ancient World, Vol. II., p. 172, London (1864).

² C. Torr, Ancient Ships, Preface, viii, Cambridge (1894).

PERSIAN NAVIGATION IN EARLY MUḤAMMADAN TIMES



PERSIAN NAVIGATION IN EARLY MUHAMMADAN TIMES

"Islām," says Martin Hartmann, "has as a rule been afraid of the sea: from the very beginning it was impressed with a sense of the supremacy of the unbelievers on the ocean and made practically no efforts to dispute their dominion. When we do find Muhammadans undertaking naval expeditions, they were almost always disastrous: all attacks on Byzantium, for example, from the sea failed 1." Similarly, . when 'Ala', the governor of Bahrain, crossed the Gulf and landed his men on the Persian coast and tried to advance upon Persepolis (16 A.H. = 637 A.D.), he found himself cut off from the sea, and so harassed by the Persians that he had to abandon his ships and turn as a last resort towards Basra. But that line of communication had also been intercepted, and it was only a relief-force from Basra, consisting of twelve thousand men sent by the Caliph 'Umar, which enabled the beleaguered army to retire on Iraq. But the success of the reneat by land did not make the Caliph Umar forget the failure of the advance by sea—not that he contemplated retrieving the naval disaster but that he was going to ban the sea and forbid naval operations for ever.

"Muavia," says Muir, "had long keenly missed the support of a fleet, and in fact had sought permission from Omar to embark his soldiery in ships. 'The isles of the Levant,' he wrote, 'are close to the Syrian shore; you might almost hear the barking of the dogs and cackling of the hens; give me leave to attack them.' But Omar dreaded the sea, and wrote to consult Amru, who answered thus:— 'The sea is a boundless expanse, whereon great ships look like tiny specks; nought but the heavens above and the waters beneath; when calm, the sailor's heart is broken; when tempestuous, his senses reel. Trust it little, fear it much. Man at sea is an insect on a splinter, now engulfed, now scared to death.' On receipt of this alarming account, Omar forbade Muavia to have anything to do with ships;—'The Syrian sea, they tell me, is longer and broader than the dry land, and is instant with the Lord, night and day, seeking to swallow it up. How should I trust my people on its accursed bosom? Remember 'Alā'. Nay,

¹ Martin Hartmann, article on China, Encyclopaedia of Islām, p. 844 a.

my friend, the safety of my people is dearer to me than all the treasures of Greece!' Nothing, therefore, was attempted by sea in the reign of Omar. But on his death, Muavia reiterated the petition, and Othman at last relaxed the ban, on condition that maritime service should be voluntary."

Now this Muslim aversion to the sea does not arise from either the Qur'an or the Prophet's traditions. "There was nothing against seafaring in the teaching of Muhammad; on the contrary, the almost reverent mention of the ships which God causes to sail upon the sea might rather have encouraged it²." The maritime passivity of Islam, therefore, is to be sought in the conditions of life governing pre-Islamic Arabia. As has been previously stated, the hinterland Arab had been from time immemorial a predatory nomad, even as the coastal Arab had been a sailor and a trader. Now Islam, whilst it was addressed to the entire peninsula of Arabia, was meant essentially for the Beduin; and it is the conversion of the Beduin to the leadership of an empire extending from Spain to the walls of China which is the supreme achievement of Islam. Therefore, since the leaders of the Islamic Empire were the Arabs of the interior, and since these Arabs were not compelled by Islam to renounce their traditional dislike to the sea, a fundamental difference arose in Islam according as it came by water and as it came by land. "When it came by water it remained on the coast and when it came by land it remained in the interior3." And it remained in the interior, because it was brought there by the Arab of the interior, the enthusiastic soldier of the Prophet; and it remained on the coast, because it was conveyed there by the coastal Arab, who, though professedly a Muslim, was essentially an

¹ W. Muir, The Caliphate, its Rise, Decline, and Fall, p. 212 (1892).

² Vide Qur'ān, x., 22:

[&]quot;He it is who makes you travel by land and sea; until when you are in the ships, and they sail on with them in a pleasant breeze, and they rejoice at it, a violent wind overtakes them and the billows surge in on them from all sides, and they become certain that they are compassed about, they pray to Allāh, being sincere to Him in obedience: If Thou dost deliver us from this, we will most certainly be of the grateful ones."

Martin Hartmann, article on China, Encyclopaedia of Islām, pp. 843 b-844a.

old Himyarite trader with the peace-loving instinct of a thousand years of civilization. In a sense, therefore, the difference in Islām as it came by land and as it came by water is a measure of the difference in religious zeal between the Beduin and the Himyarite.

This difference reaches its supreme expression in the history of the Arab conquest of Sāsānian Persia. For though the Empire ended with the fall of Yazdigird during the orthodox caliphate of 'Uthmān, the sea-trade of Persia was still alive in the Far East during the 'Abbāsid caliphate of Al-Mutawakkil (847-861 A.D.). And in support of the survival of this trade in Muḥammadan times the evidence is abundant, reliable, and conclusive.

"I, I-tsing," says I-tsing, "was in the Western Capital (Ch'ang-an) in the first year of the Hsien-hông period (670 A.D.), studying and hearing lectures....In the second year of the Hsien-heng period (671 A.D.) I kept the summer retreat in Yang-fu¹. In the beginning of autumn I met unexpectedly an imperial envoy, Fêng Hsiao-ch'uan of Kong-chou²; by the help of him I came to the town of Kwang-tung, where I fixed the date of meeting with the owner of a Persian ship to embark for the south....At last I embarked from the coast of Kwangchou (Canton), in the eleventh month in the second year of the Hsien-hêng period (671 A.D.) and sailed for the Southern Sea³....At this time the first monsoon began to blow, when our ship proceeded towards the Red South', with the ropes a hundred cubits long, suspended from above, two by two. In the beginning of the season, in which we separate from the constellation Chi, the pair of sails, each in five lengths, flew away, leaving the sombre north behind. Cutting through the immense abyss, the great swells of water lie like a mountain on the sea. Joining sideways with a vast gulf-stream, the massive waves like clouds dash against the sky. Before sailing twenty days the ship reached Bhoga, where I landed and stayed six months, gradually learning the Sabdavidya (Sanskrit grammar)5."

¹ "Yang-chou (= Yangju of Marco Polo) in Kiang-su."

² "Old name for the S.E. part of Kwang-si."

³ A Record of the Buddhist Religion, sent home from the Southern Sea by I-tsing, tr. by J. Takakusu, p. 211, Oxford (1896).

^{4 &}quot;The colour assigned to the south is red, and that to the north is sombre."

⁵ The *Ta-t'ang-si-yu-ku-fa-kao-séng-Ch'uan*, tr. by J. Takakusu, and given in his edition of I-tsing's *A Record of the Buddhist Religion*, pp. xxvii–xxx, Oxford (1896).

From I-tsing's Record and Memoirs, therefore, is obtained the important information that navigation between Canton and Bhoga (Palembang)—the capital of Sumatra, on the River Bhoga, and in the south-east of the island—was conducted by a Persian merchant, and the distance between the two ports was about twenty days by a favourable wind. Sometimes, when the weather was less favourable, the distance was covered in a month.

Equally interesting is the evidence of the *Tcheng yuan sin ting* che kiao mou lou, compiled by Yuan-tchao in the beginning of the ninth century A.D. About the year 717 A.D.,

"Vajrabodhi arrived at the island of Ceylon....Thirty-five Persian ships were found there, come to trade in precious stones. As soon as the Persian merchants saw Vajrabodhi they followed him with one accord. After a month's stay in Ceylon, Vajrabodhi obtained royal permission to depart and sailed with the faithful Persian merchants. A month's sailing brought them to Fo-che (= Cheli-fo-che) or Palembang. The end of the voyage was disastrous; all the ships of the merchants were scattered by tempest, and only the ship in which Vajrabodhi was sailing reached port²."

Eventually, "Vajrabodhi arrived at Canton in the year 720 A.D.3"

After the rise of Islām, therefore, Persian navigation was not merely isolated between China and Sumatra, but extended to Ceylon, and, as will be shown presently, to the ports of the Persian Gulf. Nor was this navigation unaccompanied by colonization, for the Chinese priest Kan shin (Kien chen) from Yang chou in 748 A.D. mentions the existence of a very large Persian village in the island of Hainan⁴. Nor again was the colonization merely insular, for the

¹ "Wu-hing came to Sribhoga (Sumatra) after a month's sail." See J. Taka-kusu. I-tsing's A Record of the Buddhist Religion, p. xlvi, Oxford (1896).

² G. Ferrand, Voyage de Vajrabodhi, given in his Relations de Voyages et Textes Géographiques, relatifs à l'Extrême-Orient, Vol. II., p. 637, Paris (1914).

⁸ Idem.

⁴ J. Takakusu in *Premier Congrès int. des Études d'Ext.-Orient*, p. 58, Hanoi (1903), quoted by Yule in his *Cathay and the Way Thither*, Vol. 1., n. 2, p. 100.

History of the Tang (Chap. 258b, Article Po ssu) states that "the Ta-shi (Arabs) and Po-sse (Persians) together, A.D. 758, sacked and burnt the city of Kwang chou (Canton) and went back by seal." "This appears to me," says Dr Bretschneider, "to be the last time that the Persians are mentioned under the name of Po ssu (Po-se, or Po-sse) in Chinese history²."

Here, as elsewhere, the word for Persia in Chinese records is Po-se but whilst Persia is undoubtedly Po-se, Po-se is not necessarily Persia. For, according to the Man šu (p. 43) of Fan Čo, written about 860 a.d., "the country P'iao (Burma) is situated seventy-five days' journey (or two thousand li) south of the city of Yun-č'an.... It borders on Po-se and P'o-lo-men (Brāhmaṇa); in the west, however, on the city Še-li." "It is clearly expressed in this document," says Mr Laufer, "that Po-se, as known under the T'ang, was a locality somewhere conterminous with Burma, and on the mainland of Asia³."

Similarly, in another passage of the *Man &u* (p. 29) it is stated that the people of the country P'o-lo-men (Brāhmaṇa), Po-se, Še-p'o (Java), P'o-ni (Borneo), and K'un-lun flock together for barter at Ta-yin-k'un⁴ where is both gold and musk and where many precious stones are found. And, according to Mr Laufer, the Malayan Po-se is again to be understood here, and not Persia, as has been proposed by Prof. P. Pelliot⁵.

Confronted with the existence of the Malayan Po-se, Dr Bretschneider has advanced a theory that the Po-se of the Archipelago, alleged to have been on Sumatra, owes its origin to the fact that "the Persians carried on a great trade with Sumatra and probably

¹ See E. Bretschneider, On the Knowledge possessed by the Ancient Chinese of the Arabs and Arabian colonies and other Western Countries, p. 10, London (1871), where the Chinese text is quoted.

² E. Bretschneider, Notes and Queries on China and Japan, IV., p. 57, quoted by Yule in his Cathay and the Way Thither, Vol. I., n. 2, p. 89.

⁸ Berthold Laufer, Sino-Iranica, p. 468.

¹ lts site is undetermined: "probably situated on the Gulf of Siam."

⁵ Berthold Laufer, Sino-Iranica, p. 469.

had colonies there¹." On meagre linguistic material² this theory has been condemned by Mr Laufer as an "unfounded speculation which has been justly rejected by G. E. Gerini³."

But G. E. Gerini has said far less than he has been made to say, for these are his exact words⁴:

"As regards Po-sz, it might just as well refer to the Basīsi (or Basīsik ()) tribe in the more southern parts of that coast. In circa 1240 Chao Ju-kua mentions a place identically called Po-sz or Po-ssu, of which Dr Hirth remarks: 'here probably not Persia, but some other country, which I have not been able to identify' (see J.R.A.S., 1896, p. 479). (Elsewhere) we have seen the same name applied, according to Dr Bretschneider, to part of the west coast of North Sumatra, from the fact of the Persians carrying on a large trade with that. country, and probably having colonies there. I shall revert to this point later on and show that the term Po-sz in the region in question has no connection whatever with Persians, although I fully admit the possibility of their having settled there in a certain number, as they did at many other trading centres in Further India. I-tsing in the seventh century tells us of their frequent navigations between East Sumatra and Canton; Kan-shin three-quarters of a century later (748-749 A.D.) finds an extensive Persian settlement in South Hainan (see Takakusu in the Proceedings of the Premier Congrès int. des Études d'Extrême-Orient, Hanoi, 1903, pp. 58-59); Muhallabi (circa 1000 A.D.), quoted by Abū-l-Feda, mentions Persians living in the city of the island of Kalah, and so forth. According to Dr Bretschneider's theory, then, all these places should have become known to the Chinese as Po-sz, which was by no means the case; hence the untenability of the theory itself and its self-condemnation on its own showing."

Gerini, therefore, both agrees and disagrees with Bretschneider: he denies Bretschneider's attempt to identify Po-se always with Persia on the theory of an extensive colonization of Sumatra by

- ¹ E. Bretschneider, On the Knowledge possessed by the Ancient Chinese of the Arabs and Arabian colonies and other Western Countries, n. 1, p. 16.
- ² Berthold Laufer, Sino-Iranica, p. 473, where two Po-se words, hei-nan and pai-nan, meaning originally black and white and used to designate rhinoceroshorn and ivory respectively, are cited from the Yu yan tsa tsu and shown to be of Malayan and not of Persian origin.
 - ⁸ Idem.
- ⁴ G. E. Gerini, Researches on Ptolemy's Geography of Eastern Asia, n. 2, p. 471, London (1909).

Persian traders; but he does not deny, therefore, the possibility of a Persian colonization of Sumatra on a small scale. Furthermore, it is not on compromise but on reason that this attitude of Gerini is maintained:

"That there were of old both Arab and Persian settlements in the Achëh district and even at other places on either the northern or western coasts of Sumatra is very probable—nay almost certain; for these coasts lie within close proximity to the Nikobars, which, as is well known, formed one of the capital stations and landmarks on the Arab and Persian sea-route across the Bay of Bengal. Owing to this fact, the north-west seaboard of Sumatra must have been often touched at, especially when the southern drift of the currents in the Bay of Bengal compelled the vessels to pass within sight of it, or hurricanes eventually threw those vessels against that coast and forced them to seek a refuge there. A proof of such views is afforded by the accounts of the Arab travellers themselves, which show that not only Lambri, but Bārūs, were well known to their countrymen, who seem to have carried on a busy traffic at their sea-ports since at least the middle of the tenth century....It cannot, therefore, seem credible that from the mere fact of the Arabs and Persians having had a few petty settlements there, the land could come to be called after them the Tājika or Parsi country1."

The question germane to our subject, however, is not whether *Po-se* is homonymous but whether the *Po-se* of I-tsing and Vajrabodhi and Kien chen is Īrānian or non-Īrānian. And it is precisely here that the argument of Mr Laufer is the weakest. Vajrabodhi, indeed, he does not discuss, but about the other two he says²:

"In 742 A.D., a Buddhist priest from Yan-čou on the Yangtse, Kien-čen by name, undertook a voyage to Japan, in the course of which he also touched at Canton in 748 A.D. In the brief abstract of his diary given by the Japanese scholar J. Takakusu, we read, 'Dans la rivière de Canton, il y avait d'innombrables vaisseaux appartenant aux brahmanes, aux Persans, aux gens de Kounloun (tribu malaise).' The text of the work in question is not at my disposal, but there can be no doubt that it contains the triad P'o-lo-men, Po-se, K'un-lun,

¹ G. E. Gerini, Researches on Ptolemy's Geography of Eastern Asia. pp. 679-680, London (1909).

² Berthold Laufer, Sino-Iranica, pp. 469-470.

as mentioned in the *Man žu*, and that the question is not of Brahmans, but of the country and people P'o-lo-men on the border of Burma, the Po-se likewise on the border of Burma, and the Malayan K'un-lun. In the first half of the eighth century, accordingly, we find the Malayan Po-se as a seafaring people trading with the Chinese at Canton. Consequently also the alleged 'Persian' settlement on the south coast of Hainan, struck by the traveller, was a Malayan Po-se colony. In view of this situation, the further question may be raised whether the pilgrim Yi Tsin (I-tsing) in 671 A.D. sought passage at Canton on a Persian ship. This vessel was bound for Palembang on Sumatra, and sailed the Malayan waters; again, in my opinion, the Malayan Po-se, not the Persians, are here in question."

But, as has already been mentioned, the *History of the T^cang* states that in the year 758 A.D. the *Ta-shi*, together with the *Po-se*, sacked and burnt the city of Canton. And it is obvious from the association of the *Po-se* with the *Ta-shi* (Arabs) that the *Po-se* here concerned are the Persian *Po-se*. Therefore, if the Persians were in Canton in 758 A.D., they must, obviously, have been in Canton also ten years earlier, even as the Buddhist priest Kien chen has recorded. Why should it be impossible then for I-tsing to meet the owner of a Persian ship at Canton in 671 A.D.? Merely because she was to sail the Malayan waters¹?

Furthermore, Mr Laufer, whilst denying the presence of pre-Muḥammadan Persian ships in China², has himself admitted the appearance of "really Persian ships in the Far East" after the rise of Islām³. This almost amounts to a contradiction, for all the dates under discussion—758 A.D., 748 A.D., 717 A.D., and 671 A.D.—are dates posterior to the rise of Islām. The argument, however, is not based entirely on circumstantial reasoning—the evidence of Hwi Čao, recovered by Prof. P. Pelliot from a rock-chamber at Tun-huang in 1908 A.D., is so conclusive that Mr Laufer himself has admitted it as

¹ Similarly (vide S. Beal, Life of Hiven-Tsiang, p. xxxix, London, 1911) Hiven-Ta, a priest of Kung-chow, from the district of Kiang Ning, appears to have accompanied an envoy in a Persian ship to the southern seas (Sribhoga).

² Berthold Laufer, Sino-Iranica, n. 4, p. 470.

³ Idem, "Only from the Mohammedan period did really Persian ships appear in the far east," n. 4, p. 470.

the best evidence¹ on Persian maritime activity during the eighth century of the Christian era.

"This little work," says Prof. F. Hirth, "which had been lost to later generations and which possibly had never been circulated to any extent among readers in China, is the *Hui-ch'au-wang-wu-t'ién-chu-kuo-chuan*, i.e., 'Account of Hui-ch'au's travels to the countries of the Five Indies.' What we have now is merely a fragment the beginning and end of which are lost; but, such as it is, the fragment is a most valuable contribution towards our knowledge of the Asiatic countries as represented in Chincse literature....In the text itself the traveller says that he came to An-si, the seat of a Chinese resident, at the beginning of the eleventh moon of the 15th year of K'ai-yüan, which date corresponds to the year 727 A.D.²"

Passing now to the actual evidence of Hwi Čao, there is the following detailed information on Persia:

"From Tu-huo-lo (Tokharestan) you go one month and come to the country of Po-ssi (Persia). The ancestors of these kings had held sway over the Ta-shi (Arabs). The Ta-shi (Arabs) had been camel drivers to the kings of Po-ssi (Persia). Afterwards they had rebelled and then killed the other kings and set themselves up as masters of the country. So it happened that now this country has been by force swallowed up by the Ta-shi (Arabs). Their drcss is the old onc, namely a wide cotton shirt. They cut beard and hair. As regards food they indulge only in pastry and meat, but they have rice which is also ground into pastry and eaten. The country produces camels, mules, sheep, horses of extraordinary height and donkeys, cotton cloth and precious stones. The dialects spoken in the country differ from each other and from those of the remaining countries. The inhabitants being by nature bent on commerce, they are in the labit of sailing in big craft on the western sca, and they enter the southern sca to the Country of Lions (Ceylon)³, where they get precious stones, for which reason it is said of the country that it produces precious stones. They also go to the K'un-lun country' to fetch gold. They also sail in big craft to

- ¹ Berthold Laufer, Sino-Iranica, n. 4, p. 470.
- ² Journal of the American Oriental Society, Vol. 33 (1913), article by F. Hirth on The Mystery of Fu-lin, pp. 202-204.
- ³ The island of Ceylon was called *Sarandīb*, an alteration of the native name *Sinhala-dwīpa*, or "the Island of the Lions," *i.e.* Lion-hearted men.
- ⁴ From the two texts of the *Man šu* above cited, K'un-lun must be a Malayan country. Prof. F. Hirth identifies it with the east coast of Africa, whence came the gold of Sofāla. But Sofāla was not the only place which produced gold; there was also Ta-yin-k'un in Malaya (*supra*, p. 99).

the country of Han (China), straight to Canton for silk piece goods and the like ware. The country produces good fine cotton. The inhabitants enjoy the killing of living creatures (cattle); they serve Heaven (Allah) and do not know the law of Buddha¹."

An analysis of this narrative reveals several facts of extreme importance. Firstly, that the Persians were "by nature bent on commerce"—a conclusion independently established by the evidence of Cosmas and Procopius. Secondly, that the Persians sailed to Ceylon in search of precious stones—information also supplied. ten years earlier, i.e. in 717 A.D. by the voyage of Vajrabodhi. Thirdly, that the purchase of "silk piece goods and the like ware" made the Persians sail straight to Canton—a conclusion already * reached by M. Ferrand on the basis of linguistic material. And fourthly and finally, that the Persians were in the habit of sailing in big craft both on the western and the southern sea—a fact which shows that Persian navigation was at its height in 727 A.D., and therefore that it must have commenced long prior to this date. For these reasons I am inclined to believe that Persian navigation of early Muhammadan times was merely a continuation of Sāsānian navigation and that, as M. Ferrand has said, the Persians were the initiators of the Arabs in trade with the Far East.

The year 758 A.D., therefore, is of particular importance, both in the history of Persian and of Arabian navigation. It was in 758 A.D. that the Persians in China were in sufficient numbers to burn a sea-port of the size of Canton, and it is in 758 A.D. that the first record is obtained of Arab sea-trade with the Far East². And it appears to me conclusive evidence of Himyarite preponderance

¹ Journal of the American Oriental Society, Vol. 33 (1913), text and translation given by Prof. F. Hirth in the article on The Mystery of Fu-lin, pp. 204–205.

² According to the speculation of Messrs Hirth and Rockhill, "the Arabs appear to have had a settlement or colony in Canton as early as A.D. 300" (*Chau Ju-kua*, p. 4). The only fact adduced is as follows: "Kia Tan says, 'From the southern frontier of Po-lo-mön, by way of Mo-lai to Wu-la, all (this) is the eastern shore of the Green Sea' (the Arab name of the ocean). Po-lo-mön meant, therefore, the whole of the west coast of India" (*idem*, n. 6, p. 12).

in this trade, that a hundred and twenty years after his first recorded presence in China the Muslim Arab is still merely a trader, sharing the city of Khānfū (the modern Canton) with the Christian trader, the Zoroastrian, and the Jew. Says the merchant Abū Zaid al-Ḥasan of Sīrāf, from evidence obtained in situ:

"An officer, who was considerable for his employ, though not of the Royal Family, revolted some time ago. This man's name was Baichu¹, and he began with hostilities in the country, marching his arms into many places to the great loss of the inhabitants, till winning a party over to him by his liberalities, he got together a multitude of vagabonds and abandoned people, whom he formed into a considerable body of troops. His hands thus strengthened, and himself in a condition to undertake anything, he betrayed his design of subduing the empire to himself, and straight marched to Khānfū, one of the most noted cities in China, and, at that time, the port for all the Arabian merchants. This city stands upon a great river, some days distant from the entrance, so that the water there is fresh: but the citizens shutting their gates against him, he resolved to besiege the place, and the siege lasted a great while. This was transacted in the year of the $Hijra\ 264^2$ (= 878 A.D.). At last he became master of the city, and put all the inhabitants to the sword. There are persons fully acquainted with the affairs of China, who assure us, that besides the Chinese, who were massacred upon this occasion, there perished one hundred and twenty thousand Muhammadans, Jews, Christians, and Parsis, who were there on account of traffic³. The number of the possessors of these four religions is exactly known, because the Chinese are extremely nice (scrupulous) in the accounts they keep of them. He also cut down the mulberry trees, and almost all the trees of other kinds, but we speak of the mulberry in particular, because the Chinese carefully cultivate it for the sake of its leaf, wherewith they subsist and propagate their silkworms. This devastation is the cause why silk has failed, and that the trade which used to be driven with it, in the countries under the Arabs, is quite stagnated.

انه قتل من المسلمين واليهود و النصاري و المجوس سوى من قتل من أهل الصين ماية و عشرون الف رجل

¹ Or rather, Bāb<u>sh</u>ū. *Vide* Abū Zaid al-Ḥasan of Sīrāf, *Silsilatu't-Tawārīkh*, published by M. Reinaud in his *Relation des Voyages*, Vol. 11., p. 62, Paris (1845):

² Idem, p. 63.

³ Idem, p. 63:

Having sacked and destroyed Khānfū, he possessed himself of many other cities, which he attacked one after another....He advanced then to the capital called Cumdan; and the Emperor left this, his royal seat, making a confused retreat to the city of Hamdu, on the frontiers towards the province of Tibet. Meanwhile the rebel, puffed up by his great successes and perceiving himself master of the country, fell upon the other cities which he demolished, having first slain most of the inhabitants¹, with a view in this general butchery to involve all the branches of the royal blood, that no one might survive to dispute the empire with him. We had news of these revolutions and of the total ruin of China which still continues²."

And since a little thing may harm a wounded man, the Chinese revolution of 878 A.D. which temporarily paralysed the Arab trade proved fatal to the Zoroastrian merchant who had survived the overthrow of his empire for more than a couple of centuries. And when, on the return of law and order, the East returned to her trade with the Far East³, the *Po-se* were gone⁴ and the *Ta-shi* were all in all.

The spectacular feats of the professional sailors of Persia must not be allowed to overshadow the amateur performance of the Zoroastrian fugitives who took ship at Hurmuz in the middle of the eighth century A.D. and discovered a permanent home for

- ¹ "The insurrection took place during the reign of Hsi-Tsung (874–889 A.D.) and, according to Chinese accounts, eight million people lost their lives, and blood flowed for a thousand miles!"
- ² Ancient Accounts of India and China by Two Mohammedan Travellers, being an English translation of the narrative of Sulaiman and Abū Zaid al-Ḥasan of Sīrāf, by E. Renaudot, pp. 41–43, London (1733).
- ³ Probably in the eleventh century A.D. For according to the *Murūju 'dh-Dhahab* of Mas'ūdī (written in 336 A.H. = 947 A.D., rewritten 345 A.H. = 956 A.D.; ed. de Meynard, Vol. I., p. 308) ships from Baṣra and China met at Kalah (= Kerah or Kra in Malacca): "in olden times it was otherwise when the Chinese ships sailed to the land of 'Umān, to Sīrāf, the coasts of Fārs and Baḥrain, to Ubullah and Baṣra, and ships from these places likewise traded directly with China; it was only after justice could no longer be relied on... that they began to meet at this intermediate point."
- ⁴ I am using *Po-se* here in the restricted sense of Zoroastrian Persians, for Muslim Persians disappeared from active competition only after the discovery of the Cape Route by the Portuguese.

themselves in India. According to the indigenous account of the emigration, given in 1600 a.d., by the Qissa-i-Sanjan of Bahman Kavkubād Hamijvar Sanjāna, all the laymen and dastūrs, who would not embrace Islām, fled to Kūhistān where they found a temporary and apparently an insecure shelter for a hundred years. Safety, therefore, suggested a second flight and coming to the coastal town of Hurmuz¹ they resolved, after a brief stay of fifteen years, to seek a sovereign remedy for religious persecution. "A ship was made ready for the sea, and instantly they hoisted sail, placed the women and children in the vessel, and rowed hard for Hind. When the ship came in sight of land the anchor fell at Dīv2." Even so, the refugees were not at the end of their quest. The small island of Div or Diu, in the Gulf of Cambay, lying to the south of Kathiawar, did not prove salubrious and it was decided to seek a second and a more congenial home elsewhere. Accordingly, "they set sail towards Gujarāt³ but when the vessel had made some way into the sea a disastrous storm approached...: but by the blessing of the Fire of the glorious Bahrām, they luckily got over that trouble... and Providence so ordered it that all these people arrived near Sanjān4."

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<sup>1</sup> The Qissa-i-Sanjān, British Museum MS. Add 27,268, f. 81<sup>b</sup>:
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ابا دستور و بهدین یگانه بسوی شهر هرمز شد روانه

² Idem, f. 82^a:

سوی دریا چو کشتی ساز کرده همانکه بادبان بر پای کرده زن و فرزند در کشتی نشاندند بسوی هند کشتی تند راندند چو کشتی سوی هند آمد یکایك بدیب افتاد لنگر وار بیشك

⁸ *Idem*, f. 82^b:

سوی گجرات کشتی تیز راندند

The translations are by S. H. Hodivala, given in his Studies in Parsi History, pp. 100-101, Bombay (1920).

4 Mr G. K. Narīmān suggests that the indigenous version of the Pārsī flight is probably based on al-Balādhurī's reference to the Arab conquest of Kermān: و هرب کثیر من اهل کرمان فرکبوا البحر ولحق بعضهم بهکران و اتی بعضهم بسجستان

Many of the people of Kerman fled by sea; some of them came to Makran, and some to Sijistan. Kitabu futuhi 'l-buldan, ed. de Goeje, p. 392.

It is extremely improbable that there was only one isolated emigration to India or that the emigrants were accommodated in a single ship. Henry Lord, indeed, who was preacher at Surat to the East India Company, states on oral evidence, obtained in 1630 A.D., that the ancestors of the Pārsīs in India embarked from Jask in a fleet of seven junks, and that they landed at three different places on the coast of Gujarāt:

"So repairing to Iasques, a place in the Persian gulph, they obtained a fleete of seauen Iuncks, to conuey them and theirs, as Merchantmen bound for the shoares of India, in course of Trade and Merchandize. It happened that in safety they made to the land of St. Iohns on the shoares of India, and arrived together, at or neere the Port of Swaley, the vsuall Receptacle of such Shippes as arrive there. Treaty was made by some of them, with a Raiah living at Nuncery, publishing their agreevances, and the cause of their comming thither, as also their suite to bee admitted as Soiournors with them, vsing their owne Law and Religion, but yeelding themselves in subjection to their Government; vpon payment of homage and tribute, they were admitted to land the Passengers, contained in five of their Iuncks.

The other two Iuncks remaining, one of them put into the Roade of Swaley, and treated with a Raiah that then refided at Baryaw neere vnto Surrat, who entertained them on like condition to the former; but the Raiah of that place, having warres with a neighbouring Raiah, who got the conquest, the Perses that resided with the conquered, were all put to the sword, as adherents to the Enemie.

The last Iuncke coasted along the shoares, and arrived at Cambaya, where they were received vpon the prementioned conditions, so that howsoeuer the people have beene dispersed in India, since their arrival, it hath beene from some of these places¹."

Since then twelve centuries have gone by and the Pārsīs have not merely retained their natural impulse for trade and enterprise but have made themselves the most cultured and the most progressive people of India.

Passing now from the broad facts of Persian navigation to the description of Persian ships, no direct evidence per se is available,

¹ H. Lord, A Display of two forraigne sects in the East Indies, pp. 3-4, London (1630).

save what is incidentally contained in the account of I-tsing, 671 A.D.:

"At this time the first monsoon began to blow, when our ship proceeded towards the Red South, with the ropes a hundred cubits long, suspended from above, two by two. In the beginning of the season, in which we separate from the constellation Chi, the pair of sails, each in five lengths, flew away, leaving the sombre north behind. Cutting through the immense abyss, the great swells of water lie like a mountain on the sea. Joining sideways with a vast gulf-stream, the massive waves like clouds dash against the sky."

Or of Hwi Čao, 727 A.D.:

"The Persians are in the habit of sailing in big craft to the country of Han, straight to Canton."

Or of Tuan Chöng-shi (d. 863 A.D.), given on the authority of Chöng Fu-li:

"On the sea-going ships of the Persians many feed pigeons. These pigeons can fly several thousand li, and, when let loose, at a single flight they return to their homes, thus serving as a letter of good news¹."

Consequently, it has to be assumed that the details of Persian shipping are more or less covered by the general description of foreign shipping, supplied by the Tang-Kuo-shi-pu of Li Chan, and the Silsilatu 't-Tawārīkh of Sulaimān. The plan may appear arbitrary but it is not intrinsically unsound. For Li Chan's description of foreign shipping applies to shipping at Canton during the period 713 to 825 A.D., and, as has repeatedly been stated even to the point of weariness, Persian ships used to sail straight to Canton in 727 A.D., and Persian merchants were even partly responsible in 758 A.D. for the sacking and burning of Canton. Similarly, Sulaimān's account of Muslim shipping at Canton was written in 851 A.D. and, according to Abū Zaid al-Ḥasan of Sīrāf, Zoroastrian traders were in Canton in 878 A.D. Therefore, though there is no explicit mention of Persian ships anywhere in Li Chan

¹ F. Hirth and W. W. Rockhill, Chau Ju-kua, his work on the Chinese and Arab trade in the twelfth and thirteenth centuries, entitled Chu-fan-chi, n. 1, p. 28, St Petersburg (1911).

and Sulaiman, both the Arab and the Chinese accounts are here given as being approximately true also of Persian shipping in Canton during the eighth and the ninth century.

"On arriving at Canton each ship handed over its cargo to the agents of the Chinese government, and it was stored until the last ship of the season's fleet arrived, when three-tenths of the merchandise was retained as import duty and the balance handed back to the owners. The principal imports into China were...ivory, frankincense, copper, tortoise-shell, camphor, and rhinoceroshorns¹.

The ships engaged in this trade and which visited Canton were very large, so high out of the water that ladders several tens of feet in length had to be used to get aboard. The foreign (Fan) captains who commanded them were registered in the office of the Inspector of Maritime Trade (Shī-po-shī). This office (the existence of which, by the way, proves the importance of this trade), before allowing ships to clear, required that the manifests should be submitted to it, and then collected export duty and also the freight charges. The export of 'precious and rare articles' was forbidden, and attempts at smuggling were punished with imprisonment²."

But "ships are but boards, sailors but men: there be land-rats and water-rats, water-thieves and land-thieves, I mean pirates; and then there is the peril of waters, winds, and rocks." "Accordingly" says the sailing directory of Kia Tan, written between 785 and 805 a.d., "they have set up ornamented pillars in the Gulf of Persia, and on these pillars they place torches at night, so that people travelling on board ships shall not go astray3." These elementary lighthouses existed till at least the tenth century, for Mas'ūdī says in 947-956 a.d.:

"Landmarks are set in the sea below Ubullah and 'Abbādān. And people are put in charge to light a fire at night, on three stakes, like chairs, in the middle of the sea, as a precaution for the ships which come from 'Umān, Sīrāf, and elsewhere'."

¹ F. Hirth and W. W. Rockhill's ed. of *Chau Ju-kua*, pp. 15–16, St Petersburg (1911).

² Idem, p. 9.

⁴ Mas'ūdī, *Murūju* '<u>dh</u>-<u>Dh</u>ahab, ed. B. de Meynard, Vol. 1, p. 230, Paris (1864).

And in 985 A.D. Muqaddasī adds in confirmation:

"On the skirts of al-Baṣra, small huts have been erected on palm trunks set in the sea, and people have been stationed thereon to keep a fire lighted at night, as a warning to ships to steer clear of this shallow place¹."

Sometimes, however, the shoals were so plentiful that navigation had to be totally suspended by night:

"On this account the passage is only made by day; in which case the ship-master takes his stand on the top and steadily looks into the sea. Two boys are likewise posted on his right and on his left. On espying a rock he at once calls to either of the boys to give notice of this to the helmsman by a loud cry. The latter, on hearing the cry, pulls one or the other of two ropes he holds in his hand to the right or to the left, according to the directions. If these precautions are not taken, the ship stands in danger of being wrecked against the rocks?"

But when the ships had passed out of sight of land, and in the words of 'Amr there was nought but the heavens above and the waters beneath, the nākhudā had to rely on "the regularity of the monsoons and steer solely by the sun, moon, and stars, taking, presumably, soundings as frequently as possible." Though a knowinge of the polarity of the magnetic needle had been acquired, the use of the mariner's compass was unknown before the twelfth century, and it was by the help of carrier-pigeons and shore-sighting birds that the ship kept her course or sent messages to land. And from the fifth to the twelfth century this mode of sailing in the Southern Sea was common to all ships, whether belonging to the East or the Far East.

But the risk of these early voyages arose more from piracy than from a primitive nautical technique. "The people of Ko-ko-söng-chi (Brouwer's islands)," writes Kia Tan between 785 and 805 A.D., "are cruel pirates and sailors dread them⁵." And beyond Sumatra,

¹ Ranking's tr. of Muqaddasī: Aḥsanu 't-Taqāsīm fī Ma'rifati 'l-Aqālīm, p. 17, Calcutta (1897).

² Idem, p. 16.

³ F. Hirth and W. W. Rockhill's ed. of *Chau Ju-kua*, p. 28, St Petersburg (1911).

⁴ Idem. ⁵ Idem, p. 11.

the maritime population of South Siam and Cambodia was so piratical that the entire country came to be known as the country of the *Lestai* or the country of robbers¹. And nearer at home the ports of Dwarka and Sōmnāth were nests of piratical Jats and Gurjjaras, so that, as Muqaddasī writes in 985 A.D.: "all ships sailing over this part of the sea are constrained to carry for protection a body of fighting men and throwers of naphtha²." There is no doubt that some ships were plundered, others bought themselves off by paying toll, others again avoided the dangerous route altogether. But when this was impracticable, as in the straits of Malacca, an iron chain was stretched permanently across the sea to keep off pirates, and it was only for allowing merchant-ships to pass that the chain was ever lowered³.

Whatever be the value of the protective measures against piracy, shoals, storms and breakers, the deciding factor in the maintenance of early sea-traffic was the certainty of material advancement. Though the risk was great, the gain was greater; and so they shot over the seething harbour-bar, the old pilots of *Po-se*, and sailed several thousand *li*, to the country of Han, straight to Canton. And to a discussion of the itinerary of this route it is now time to proceed.

It will be recalled that Ardashīr-i-Pāpakān built or re-built several towns on the Persian Gulf, amongst them Ubullah, Rīshahr, and Hurmuz. Ubullah lay at the head of the Persian Gulf, on the navigable Shatta 1-'Arab, and being the terminus of the Eastern sea-route, and the junction of the caravan-routes to Umān, Egypt, and Syria, was undoubtedly the premier port of the Sāsānian Empire. Next in importance was Rīshahr, on the peninsula of Mesambria, and six miles to the south of the modern Būshahr.

¹ G. E. Gerini, Researches on Ptolemy's Geography of Eastern Asia, p. 156, London (1909).

² Ranking's tr. of Muqaddasī: Aḥsanu 't-Taqāsīm fī Ma'rifati 'l-Aqālīm, p. 17, Calcutta (1897).

⁸ F. Hirth and W. W. Rockhill's ed. of *Chau Ju-kua*, p. 62, St Petersburg (1911).

Numerous burial-urns and bricks with cuneiform characters have been found here, and also engraved stones and vestiges of ancient buildings. Ouseley says that "the peasants when digging frequently expose to view remains of canals, aqueducts and ancient wells, larger in size and in construction far better than those of ordinary make¹"; and that "out of the plain near Būshahr many vases have been taken, formed of ill-baked clay, and filled with seeds of the plant tulah or mallows, which soon decay, when affected by the fresh air²." Altogether, the evidence of Rīshahr's prosperity is unquestionable: "the town may date back," says Mr Streck, "to the period of Babylon's prosperity³."

Our concern, however, is not with the antiquity of Rishahr but its modernity: not how far the town can date back but how far it can be made to go forward. Now, according to the Kārnāma, Ardashīr-i-Pāpakān, on founding Fīrūzābād, dug for the city a large tank whence water was conveyed by means of four canals4: and, a little lower down, the Kārnāma adds that even the course of a river was deflected into the city through subterranean canals⁵. Similarly, according to Hamza of Isfahān, Ardashīr-i-Pāpakān irrigated with canals the city of Batn Ardashīr⁶ founded by him in the island of Bahrain. It appears, therefore, that the canals of Rishahr, mentioned by Ouseley, are also to be ascribed to Ardashīr-i-Pāpakān, the founder or rather the restorer of Rīshahr7. Lord Curzon, moreover, supposes that the burial-urns found in Rīshahr contain the remains of Zoroastrians after the body had perished by exposure⁸; and finally tradition ascribes the tulah seeds to the Fire-worshippers who kept these seeds in their houses,

¹ William Ouseley, Travels in the East, Vol. 1., p. 214, London (1819).

² Idem, p. 215.

³ Vide article on Būshīr, in the Encyclopaedia of Islām, p. 802 b.

⁴ Kārnāma-i-Ardashīr-i-Pāpakān, Ch. IV., 17.

⁵ Idem, Ch. IV., 18.

⁶ Hamza of Isfahān, Annals, p. 49, Gottwaldt's edition.

⁷ Idem, p. 48.

⁸ G. Curzon, *Persia*, Vol. II., p. 225, London (1892).

because the *tulah* plant follows the sun's diurnal course and so turns like a Zoroastrian, as Ouseley supposes, in adoration towards the sun. Therefore though the prosperity of Rīshahr may not have been initiated by Ardashīr-i-Pāpakān it was certainly maintained and even revived by him, and it follows *ipso facto* that Rīshahr was one of the principal ports of the Sāsānian Empire.

There remains now the town of Hurmuz. Situated at the entrance to the Persian Gulf, in the district bearing the significant name of Mughistān, that is, the land of the Mughs, Fire-worshippers, it was a port of call for sea-going vessels to Ceylon and the pepper-country, and for coasting vessels to Daibul and Gujarāt. "The district of Hurmuz was very rich in agricultural products (wine, wheat, barley, rice, and indigo), and in minerals (gold, silver, copper, iron, cinnabar, and salt), but its resources were not fully developed till mediaeval times."

And so from these ports of Ubullah, Rīshahr, and Hurmuz the stately ships went on to their haven under the hill—to "Sindu, Orrhotha, Calliana, Sibor, and the five marts of Mále which export pepper—Parti, Mangarouth, Salopatana, Nalopatana, Poudopatana. And then out in the ocean, at the distance of five days and nights from the continent, lies Sielediba, that is, Taprobane¹." And since, according to Procopius, the Persian trader came essentially in search of silk², and since Barbaricum, at the mouth of the Indus, exported silk-yarn³, whilst Barygaza (Broach)⁴ and the Malabār ports of Muziris, Nelcynda, and Bacare exported silk-cloth⁵, it is obvious that only a coastal voyage from Hurmuz to Ceylon could have enabled the Persians to monopolize the silk-trade of India, and to dictate terms to the Roman consumer⁶, for whom silk was not a luxury but a necessity. In other words, the adoption of the

¹ Cosmos Indicopleustes, *The Christian Topography*, Bk. xI., Eng. tr. pp. 366–367, ed. McCrindle, London (1897).

² Procopius of Caesarea, De Bello Persico, Bk. I., XX., 9-12.

³ The Periplus of the Erythraean Sea, 39.

⁴ Idem, 49. ⁵ Idem, 56.

⁶ Procopius of Caesarea, De Bello Persico, Bk. I., XX., 9.

coastal route was an inevitable response to trade-conditions in late Sāsānian times¹.

But when the Persian trader had exceeded the limits of the Himyarite and obtained his silk directly from China, the long coasting voyage had to be replaced, or supplemented, by a direct and open sea-route. For this reason, probably, a gradual recession took place in the headquarters of the trade with India and China. "From Obolla it was transferred to the neighbouring city of Başra, built by the Caliph 'Omar on the first conquest of 'Irāq (636 A.D.); from Baṣra it descended to Sīrāf on the northern shore of the Gulf, and from Sīrāf successively to Kīsh and Hormuz²." Unfortunately, no indigenous records of the through traffic have survived, but since the earliest Arab account, given in 851 A.D., by the merchant Sulaimān, is based on personal observation, and is at the same time contemporaneous with the last days of the *Po-se* trader to China, it is here set forth in extenso.

"Most of the Chinese ships take in their cargo at Sīrāf³, where also they ship their goods which come from Baṣra, 'Umān, and other places; and this they do because in the sea of Persia there are frequent storms, and shoals in many places. From Baṣra to Sīrāf is one hundred and twenty leagues, and when ships

¹ "The introduction of silk-culture in Gīlān took place towards the end of Sāsānian rule. We know definitely from Chinese annals that silk-culture was introduced into Khutan for the first time in 419 A.D. by a Chinese princess. From Khutan sericulture seems to have spread westward to Yārqand, and from there, further westward, to Farghāna and Gīlān." Fr. Spiegel, Eranische Alterthumskunde, Vol. I., p. 256, Leipsic (1871).

² Yule, Cathay and the Way Thither, Vol. 1., pp. 84-85, London (1915).

"Sīrāf was on the Zuhayr coast, to the north-west of Nâband, and prior to the rise of Kays island (or Kīsh), the chief emporium of the Persian Gulf in the 4th century. 'Sīrāf,' Iṣṭakhri says, 'nearly equalled Shīrāz in size and splendour; the houses were built of teakwood brought from the Zanj country (Zanzibar) and were several stories high, built to overlook the sea.' This author writes that a merchant of his acquaintance here had spent 30,000 dinars (£15,000) on his house, and the Sīrāf merchants were accounted the richest in all Fārs.... Muķaddasī speaks of Sīrāf as commercially the rival of Baṣra; its houses were the finest he had ever seen." G. le Strange, The Lands of the Eastern Caliphate, pp. 258-259.

have loaded at Sīrāf and taken a supply of water, they sail for a place called Masqat, which is in the extremity of the province of 'Umān, about two hundred leagues from Sīrāf. On the east coast of this sea, between Sīrāf and Masqat, is a place called Saif Banī aṣ-Ṣaffāq, and an island called Ibn Kāwān; and in this sea are rocks called 'Umān, and a strait called Durdawr, through which small vessels do venture but the Chinese ships dare not¹. There also are two rocks which scarce appear above the water's edge—Kusair and 'Uwair. After clearing these rocks, the ships steer for a place called Sukhār 'Umān, and at Masqat take in water which is drawn out of wells....Then the ships sail to the countries of India and put in first at Kūlam-Malī², a month's voyage from Masqat with the wind aft....Having watered at Kūlam-Malī the ships set sail for the sea of Harqand³ en route to a place called Langābālūs¹, where the men wear no

- ¹ The Chinese ships are used here both in the sense of ships sailing to China, and of ships belonging to China. These ships were of enormous size. Fa-hian left Ceylon (c. 412 A.D.) in a large merchantman, on board of which there were more than 200 men. Vide H. A. Giles, The Travels of Fa-hsien, p. 76, Cambridge (1923).
- ² i.e., Quilon, and possibly the Male of Cosmas. The printed edition (Reinaud, Vol. II., p. 16 (1845)) has كولر ملي in place of كولر ملي. "The copyist himself has taken pains to write in the margin that كولر ملي should be read. It is surprising that neither Renaudot nor Langle paid any attention to the marginal note which is in the same hand as the body of the text."

Mr Logan derives Külam from the Tamil Kollam, an abbreviated form of Koyilagam, or Kovilagam, 'King's house.' Bishop Caldwell thinks Külam may be best explained as 'Palace' or 'royal residence' from Kolu, 'the royal Presence' or Hall of audience. Vide Hobson-Jobson, under Quilon.

- ³ i.e., the Bay of Bengal.
- 4 One of the islands of the Nicobar Group. ليخ بالوس (Reinaud, Vol. II., p. 17) corrected to انكا بالوس and then to انكا بالوس (M. Ferrand, Text. Geog., Vol. I., p. 27, n. 8). Bālūs is Bārūs or Baros, on the western coast of Sumatra, in the country of Batak, 2° N. lat. (M. Ferrand, Text. Geog., Vol. I., p. 27, n. 5). The group نك represents a long nasal + a deep guttural, i.e. ng (idem, n. 8).

"Comparing the old forms Lankha and Nakkavaram, and the nakedness constantly attributed to the people, it seems possible that the name may have reference to this (nañgā). According to Mr Man, a possible derivation is from ngoât, 'a ripe nut,' and ni-nàu, 'a half-ripe nut'—the Nicobars having long been famed for the excellence of their cocoanuts." Hobson-Jobson, under Nicobar Islands.

clothes and neither understand Arabic, nor any other language in use with the merchants....From Langābālūs the ships sail to a place called Kalah-bār¹. The word ' $b\bar{a}r$ ' serves to indicate both kingdom and coast. Kalah-bār is a dependency of Zābij² and Zābij is to the east of India.

From Kalah-bār the ships sail to Tiyūma⁸ and they reach there in ten days' time, and thence they sail to Kundranj⁴ and the voyage takes ten days again. From Kundranj to Ṣanf⁵ also takes ten days and when the ships have provided themselves with fresh water at Ṣanf they sail to Ṣundur-fūlāt⁶, an island in the sea, and arrive there in ten days' time.

- Then the ships sail through the sea of Sankhi⁷ and reach the gates of China, which consist of mountains in the sea, with a narrow passage in between, (barely) sufficient for ships to pass. When a ship has got through these gates, she goes into
 a fresh-water gulf, and drops anchor in the chief port of China, called Khānfū⁸.
 - ¹ Bār is a suffix; Kalah also called Kalā, Kilā, and Killah, is either Kědah (= Quedah) or Kěrah (= Kra) in Malacca. "The other attempts to locate the position of Kalah—on Ceylon (harbour of Ghālī, Galle, Pointe de Galle, so Reinaud and Dulaurier), Malabār (so Renaudot), Coromandel (so Gildemeister)—should now be definitely rejected as wrong." Article on Kalah, Encyclopaedia of Islām. Apparently, it has not been possible to arrange for collaboration amongst the contributors to the Encyclopaedia of Islām, for in the article on China, in this very encyclopaedia (p. 841 a), Kalah is called Galla and identified with Pointe de Galle.
 - ² i.e., Java. Vide M. Ferrand, Text. Geog., Vol. I., p. 11.
 - ⁸ i.e., the isle of Tiuman, on the south-east coast of the Malaya peninsula.
 - The printed edition (Reinaud, Vol. II., p. 19) has ڪدرنج which should be corrected to ڪندرنج. Kundranj is on the delta of the Mekong. Vide M. Ferrand, Text. Geog., Vol. I., p. 30, n. 4.
 - ⁵ i.e., Cambodia. Vide M. Ferrand, Text. Geog., Vol. I., p. 30, n. 4.
 - 6 i.e., Poulo Condore.
 - 7 i.e., the Sea of China.
 - ⁸ Khānfū "is undoubtedly Canton." Yule (Cathay and the Way Thither, Vol. I., p. 89, n. 3 (1915)) had identified Khānfū with Hang-chou-fu. But "all has been altered by the critical edition of Ibn Khurdādhbih (Bibl. Geog. Arab., VI.). The following points are certain: Khānfū, which is undoubtedly Canton, and Kānṣū, in which we recognize the Khansā of Ibn Baṭūṭa; this latter is clearly Hang-chou (that hang formerly appeared as kān and later as khān is not doubted; for the corruption of chou to ṣū (sā) we may perhaps compare the ṣa for chao in Chinesisch-Arabische Glossen, p. 285)." Martin Hartmann, article on China, Encyclopaedia of Islām, p. 842 a.

It is a month's voyage from Sundur-fulat to China, inclusive of the seven days spent in clearing 'the gates'.'"

The reliability of this narrative is attested by Abū Zaid al-Ḥasan of Sīrāf. "I have carefully examined," says he, "the book I have been ordered to read that I might confirm what the author states... I find it was written in the year of the *Hijra* 237 (=851 A.D.) and that the accounts the author gives concerning the things of the sea were in his time very true and agreeable to what I have heard from merchants who depart from Trāq to sail upon those seas²."

But whatever be its *prima facie* value this Arab record is not absolutely correct. The voyage from Tiyūma to <u>Khānfū</u> (Canton), for example, is supposed to have taken two months. Now there is the independent and impartial evidence of I-tsing that in 671 A.D. Persian ships sailed from Canton to Palembang (Sumatra), usually in twenty and sometimes in thirty days; or, in other words, Arab sailors of 851 A.D. took twice or even thrice the amount of time required by Persian sailors of 671 A.D.

No doubt the Arabs coasted whilst the Persians sailed in the open sea. But even so, the Arab voyage from Poulo Condore (Sundur-fūlāt) to Canton (Khānfū) was made in a month, whilst the Persian voyage from Palembang to Canton, covering a much longer distance on the same route, took only twenty days or sometimes thirty. Either, therefore, the Persian ships were faster than those of the Arabs, or the evidence of Sulaimān, notwithstanding all its prima facie value, is unreliable.

Now according to the *Tcheng yüan sin ting che kiao mou lou*, compiled by Yüan-tchao about the ninth century A.D., Vajrabodhi sailed from Ceylon in 717 A.D. with thirty-five Persian ships and arrived at Palembang in a month. And since I-tsing says that he sailed in 671 A.D. in a Persian ship from Canton to Palembang in

¹ Sulaimān, Silsilatu 't-Tawārīkh, Arabic text given in Vol. II., pp. 14-21, of M. Reinaud's Relation des Voyages, Paris (1845).

² Abu Zaid al-Ḥasan of Sīrāf, Silsilatu 't-Tawārīkh, Arabic text given in Vol. II., pp. 60-61, of M. Reinaud's Relation des Voyages, Paris (1845).

twenty days, it appears that it took one month and twenty days for a Persian ship of the seventh or the eighth century to sail from Ceylon to Canton. On the other hand, the Arab vessels of 851 A.D. took, according to Sulaimān, not less than three months¹ to complete the same distance. It is obvious that a difference of one to two cannot be wholly attributed to the inaccuracy of Sulaimān and the coasting voyage of the early Arabs, and it seems, therefore, extremely probable that Persian navigation in the Southern Sea was not only prior to Arabian but also superior.

It would be more appropriate, however, to compare the Persian sailor, not with the inexperienced Arab who made his first recorded appearance in China in 751 A.D., but with the old Chinese navigator, whose junk was in Malabār in the second century B.C. and even earlier. Now Fa-hian says that "the ordinary time for the voyage from Java to Canton is exactly fifty days²." This was about the beginning of the fifth century A.D., before the arrival of the Persians

¹ According to Sulaimān, the voyage from Quilon (Kūlam-Malī) to Canton (Khānfū) took three months and ten days. There is considerable disparity, however, between different Arab writers, for Ibn Khurdādhbih's estimate—

From Ceylon to Langăbālūs 10-15 days From Langābālūs to Kalah 6 days From Kalah to Māgit From Maqit to Tiyuma (؟ قيومه) The distance is short; one day according to Idrisi From Tiyūma to Qumār (قهار) 5 days From Qumār to Sanf 3 days From Sanf to al-Waqin (الوقين) 100 farsangs From al-Waqīn (Luqin) to Khānqū 4 days (خانقو) From Khānqū to Khānfū (Canton) 8 days

—shortens Sulaimān's timings by one-half, though not, as Sprenger says, (Wir dürfen nur nicht vergessen, dass Ibn Chord. in einem Tage durchschnittlich eine drei mal so grosse Distanz zurücklegt als Solaymān) by two-thirds. *Vide* A. Sprenger, *Post- und Reiserouten des Orients*, pp. 82–83 et 89, Leipsic (1864).

² The Travels of Fa-hsien (399-414 A.D.), re-translated by Prof. H. A. Giles, p. 79, Cambridge (1923).

in the Southern Sea. But in 671 A.D. when the navigation between Canton and Sumatra was in the hands of a Persian merchant, the fifty days' voyage had been reduced to thirty days or even to twenty. The saving in time is double or even more than double, and therefore, unless I-tsing is wholly wrong, the Persian sailor appears to have been as far superior to his predecessor, the Chinese sailor, as he was to his successor, the Arabian. At least, such is the evidence furnished by the Arabs and the Chinese themselves, in contemporary records of their own writing.

PERSIAN NAVIGATION FROM THE 10TH CENTURY TO THE 16TH

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"The advance of Islām by sea was, one might say, an automatic process. As soon as the Muslims had conquered South Babylonia, and the principal towns on the Persian Gulf, they found themselves forced to carry on the seafaring traditions of these lands unless they wished to leave their newly won position unprotected. There was naturally no immediate change in the management and manning of the ships and as a rule they seem to have continued as before. If the experienced old sailors would not adopt the new religion, men to take their place were found from among their countrymen. It must not be imagined that the Arabs had taken up navigation; the 'Arab proper, i.e., the inhabitants of the Hidjāz and the Syrian steppe, were quite useless as sailors. The crews of the ships must have been recruited from the peoples of the South Arabian coast and the Persian Gulf. We may perhaps find evidence of the preponderance of the Persian element in the fact that in the older Arabic literature the word for 'captain of a ship' is $n\bar{a}\underline{k}hod\bar{a}^1$."

M. Hartmann's reasoning is largely à priori but it is not therefore deceptive: there is the corroborative evidence of Arabic writers that the crews of Muslim ships were actually recruited from the peoples of the South Arabian coast and the Persian Gulf, and that the preponderating element both amongst shipbuilders and seafaring men was undoubtedly Persian. "I myself," says Abū 'Abdu 'llāh Muḥammad ibn Aḥmad al-Muqaddasī, in his geographical work, Aḥsanu 't-Taqāsīm fī Ma'rifati 'l-Aqālīm, composed in 985 A.D.

"I myself have made the circuit of the whole Arabian peninsula from al-Qulzum to 'Abbādān², not taking into account casual visits on shipboards to the islands and depths of this sea. I was thus thrown into the company of men—shipmasters, pilots, agents, and merchants—who, born and bred upon it, possessed the clearest and fullest knowledge of this sea, its anchorages, its winds, and its islands. I plied them with questions concerning its position, physical peculiarities, and

¹ M. Hartmann, article on China, Encyclopaedia of Islām, p. 844 a.

² al-Qulzum was at the apex of the Red Sea, and 'Abbādān stood on the island formed by the estuaries of the Tigris and the Dujail (Kārūn river).

its limits. I have also seen in their possession charts and sailing directories which they constantly study and follow with implicit confidence. From these sources, therefore, I have drawn, with careful discrimination and close attention, a sufficient account embodying the best information I could acquire, which I afterwards compared with the charts already spoken of 1."

What then is this information—supplied by a geographer of repute, from material collected in situ?

"The two chief ports of the world are Aden and Ṣuḥār. The greater part of the inhabitants of Aden and Jiddah are Persians but the language is Arabic; in Ṣuḥār, however, they speak and call out to each other in Persian². Ṣuḥār is the capital of 'Umān. There is not on the sea of China at the present day a more important town than this...It is a city of great wealth and many merchants, and a place abounding in fruits and natural resources. It is greater than Zabūd and Ṣan'ā'; it contains excellent markets and is beautifully laid out along the shore of the sea. Its lofty and splendid houses are built of burned bricks and teakwood. Its mosque is on the seashore at the farther end of the markets, with a beautiful, high minaret. They have wells of brackish but drinkable water, and a canal of fresh water, and supplies of every description abound. Ṣuḥār is the gateway of China, and the emporium of the East and al-'Irāq; it also furnishes al-Yaman with the necessaries of life. The Persians are masters in it³."

Similarly, in Jiddah, whereof the inhabitants are chiefly merchants and people of wealth—for Jiddah is the granary of Mecca and the emporium of Yemen and Egypt—"the Persians are the ruling class

¹ al-Muqaddasī, ed. M. J. de Goeje (1906), Ar. text, pp. 10-11:

و درتُ علي الجزيرة كلّها من القلزم الي عبّادان سوي ما توَّهت بنا المراكب الي جزآئره و لحجة و صاحبتُ مشايخ فيه وُلدوا ونشُوا من رُبَّانيّين و اشاتهة و رياضيّين و وكلاء و تجار و رايتُهر من ابُّصْر الناس به و بمراسيه و ارياحه و جزائره فسألتُهر عنه و عن اسبابه و حدوده و رايتُ معهر دفاتر في ذلك يتدارسونها و يعوّلون عليها و يعملون بها فيها فعلَّقتُ من ذلك صدراً صالحاً بعد ما ميَّزتُ و تدبَّرتُ ثم قابلتُه بالصور التي ذكرتُ عليها و عليها و عملون عليها و يعملون عليها و عملون التي ذكرتُ بها فيها فعلَّقتُ من ذلك صدراً صالحاً بعد ما ميَّزتُ و تدبَّرتُ ثم قابلتُه بالصور التي ذكرتُ 1 Idem, p. 96:

اهل هذا الاقليم لغتهم العربيَّه الَّا بصحار فانَّ نداهم و كلامهم بالفارسيَّة و اكثر اهل عدن و جدّه فرس الَّا ان اللغة عربيّة ' عدن و جدّه فرس الَّا ان اللغة عربيّة ' Idem, p. 92:

دهليز الصين و خزانة الشرق و العراق و مغوثة اليبن قد غلب عليها الغرس

RUINEL MOSQUE TUMBATU

and live in splendid palaces¹." Such a preponderance of the Persian element in the Arabian sea-trade of the tenth century may appear surprising, but Muqaddasī states definitely that "those who take a journey to Hajar and 'Abbādān must necessarily pass by the seas of Fāris, Kirmān and Tīz-Mukrān, and indeed many people actually call this part of the sea as far as the coast of al-Yaman by the general name of the sea of Fāris; while most of the shipbuilders and seafaring men are Persians²." Consequently, if all along the periplus of the Persian Gulf, and the southern littoral of the Arabian peninsula, most of the ships were manned, or owned, or built by Persians, then obviously a considerable proportion of the tribute, which Mas'ūdī pays to the sailors of Sīrāf and 'Umān³, whose was the shipping and the harvest of the sea from Kalah⁴ to Qulzum and 'Abbādān to Sofāla⁵, must belong to the credit of Persia—especially

¹ al-Muqaddasī, ed. M. J. de Goeje, Ar. text, p. 79:

جُدَّة مدينة علي البحر...اَهلة اهل تجارات و يسار خزانة مكة و مطرح اليمن و مصر... قد غلب عليها الفرس لهم بها قصور عجيبة'

² Idem, p. 18:

ان من سار الي هجر و عبَّادان لا بدَّ له من بحر فارس و كرمان و تيزُ مُكران أُوَلا تري الي كثير من الناس يسبُّونه الي حدود اليهن بحر فارس و ان اكثر صنَّاع الهراكب و ملَّاحيها فرس

All the translations are by Ranking, Bib. Ind. Series, Calcutta (1910).

⁸ Mas'ūdī, *Murūju 'dh-Dhahab*, ed. B. de Meynard, Paris, 1864, Vol. 1., pp. 281-282:

نواخذة بحر الصين والهند والسند والزنج واليمن والقلزم والحبشه من السيرافيين والعبانيين

The sailors of Sīrāf and 'Umān (navigate) the seas of China, India, Sind, Azania, Arabia, Erythraea, and Abyssinia.

4 Idem, Vol. II., p. 52:

The sailors of Sīrāf and 'Umān voyage regularly to Kalah (Kěrah or Kra in Malacca) and Zābij (Java).

⁵ Idem, Vol. III., p. 6:

و هي [سفالة] اقاصي بلاد الزنج و اليها تقصد مراكب العبانيين و السيرافيين و هي غاية مقاصدهم

Sofala is the farthest limit of the country of the Zanj. The ships of the people of Uman and Siraf go there, and it is the limit of their navigation.

as the majority of ship-captains and sea-traders, quoted by the Persian $n\bar{a}\underline{k}\underline{h}ud\bar{a}$, Buzurg b. Shahriyār of Rām-Hurmuz, in his curious ' $Aj\bar{a}$ 'ibu'l-Hind (a work of about the middle of the tenth century A.D.), seem also to have been of Persian extraction¹. And since, according to Muhallabī, as quoted by Abū'l-Fidā, there was a colony of Persian traders in the island or rather the port of Kalah², and since, according to Muqaddasī, the Persian colonists in Ṣuḥār, Aden, and Jiddah had risen to the rank of merchant-princes, no other conclusion seems possible but that even as late as the tenth century A.D. it was Persia which carried the bulk of Muslim commerce both on the Southern and the Western Sea.

A detailed account of this commerce is given by contemporary geographers, but as Aden and Şuḥār commanded the maritime trade of the Red Sea and the Persian Gulf with Africa and the Far

¹ Namely (i) Abū Muḥammad al-Ḥasan b. 'Amr b. Ḥammawīya b. Ḥarām b. Ḥammawīya of Najīram, v. d. Lith's edition, Leiden, 1883–1886, p. 2, (ii) Abū 'Abdullah Muḥammad b. Bābshād b. Ḥarām b. Ḥammawīya of Sīrāf, p. 5, (iii) Abū'z-Zahr al-Barkhatī, p. 19, (iv) Abū'l Ḥasan 'Alī b. Shādān of Sīrāf, p. 62, (v) Mardānshāh, p. 94, (vi) Yūnus b. Mihrān of Sīrāf, p. 137, (vii) Dārbazīn, p. 144, (viii) 'Abbās b. Māhān of Ṣaimūr, p. 144, and (ix) 'Abdu'l Wāḥid b. 'Abdur-Raḥmān of Fasā, p. 148.

² Géographie d'Aboulféda, ed. M. Reinaud, Paris (1840), Ar. text, p. 375: و جزيرة كلة فرضه مابين عهان و الصين و منها يجلب الرصاص الهنسوب اليها قال الههلبي في العزيزي و جزيرة كلة في بحر الهند و فيها مدينة عامرة يسكنها الهسلمون و الهند و الفرس قال و بها معادن للرصاص و منابت الخيزران و شجر الكافور و بينها و بين جزائر الههراج عشرون مجرى

And the island of Kalah is a port between 'Umān and Chīna, and thence is obtained tin, for which it is noted. Says al-Muhallabī in the 'Azīzī: The island of Kalah is in the Indian Ocean, and contains a flourishing city inhabited by Muslims, Indians, and Persians; and therein are mines of tin, and plantations of cane and the tree of camphor; and the distance between Kalah and the islands of Mahārāj (Sumatra) is twenty leagues.

According to the Kash fu'z-Zunūn of Ḥājī Khalīfa (ed. G. Fluegel, Vol. 5, London, 1850, p. 512) the al-Masālik wa'l-Mamālik, generally known as the 'Azīzī, was composed by Ḥasan bin Aḥmad Muhallabī in honour of the Fāṭimid king of Egypt, Al-'Azīz Bi'llāh (975-996 A.D.).

East, and had therefore become the two chief ports of the world, and as, moreover, in this maritime prosperity Persia had undoubtedly a large share, only the exports to these two places need be described.

"To 'Umān the following articles are exported: apothecaries' drugs, all kinds of perfumes (even musk included), saffron, baqqam, teakwood, the wood of the sāsam tree (the Indian shīsham), ivory, pearls, brocade, onyx, rubies, ebony, cocoanut, sugar, sandarach, aloes, iron, lead, canes, earthenware, sandalwood, glass, pepper, and other articles. Aden receives in addition, ambergris, (fine linen cloths called) shurūb, leather bucklers, Abyssinian slaves, eunuchs, tiger skins, and other articles....Chinese wares are proverbially famous; witness the common saying here, 'they come to thee as merchant princes'."

Muqaddasī does not state whether the charts and sailingdirectories seen by him in the possession of seafaring men were Persian, but this point has been considerably elucidated by the researches of M. Ferrand². The nautical treatise Kitābu'l-fawā'id fi upprox ali'l-'ilmi'l-bahri wa'l-qawa'id و کتاب الغوائد فی اصول العلم البحری و (Nat. Bibl., Paris, Arabic MSS. 2292 et 2559), composed in 895 A.H. (1489-1490 A.D.) by the two Arabs, Ibn Mājid and Sulaimān al-Mahri, mentions a work of collaboration by Muhammad bin Shādhān, Sahl bin Ābān, and Laith bin Kahlān, called Rahmānī or -whereof a copy dated 580 A.H. (1184 - رهباني - whereof a copy dated 580 A.H. 1185 A.D.), transcribed by the grandson of Laith bin Kahlan, had been seen by Ibn Mājid himself3. This Rahmānā or Rahmānaj was a nautical treatise, for, on the one hand, this work is frequently mentioned by the nautical Arab treatise Kitābu'l-fawā'id fī uṣūli'l-'ilmi'l-baḥrī wa'l-qawā'id, and, on the other, the Tārīkhu 'l-Mustabsir تاريخ المستبصر of Ibnu'l-Mujāwir ابن المجاور, composed about

¹ Ranking's tr. of Muqaddasī, p. 148.

² G. Ferrand, L'Élément Persan dans les textes Nautiques Arabes des xv° et xv1° siècles, *Journal Asiatique*, Avril-Juin, 1924, pp. 196–235.

³ *Idem*, p. 196:

في ذلك العصر الثلاثة الرجال المشهورين محمد بن شاذان و سهل بن ابان و ليث بن كهلان ما هو ابن كاملان وقد رايت ذلك بخط ولد ولده في رهماني تاريخه خمسهاية و ثهانين سنة فاغتنوا بتاليف هذا الرهماني

Persian nautical texts3."

630 A.H. states \dot{a} propos of the seven sorts of shore-sighting birds that "the author of the book called Rahmānai says: 'when the traveller sails in this sea, seven sorts of birds in the open sea tell him that he is near the island of Socotra!." The Rahmant or Rahmanai. moreover, was not merely a nautical treatise but a Persian nautical treatise, for the dictionary Tāju 'l-'Arūs تاج العروس states explicitly that the etymology of رمانج "rahmānaj" is the Persian rāh + nāma (1), i.e. "the Book of the Road?" And finally the Persian nautical treatise Rahmānaj was in general use in the twelfth century, for howelse could Ibnu'l-Mujawir, the author of the Tarikhu'l-Mustabsir. who was not a sailor, have known such a specialized work, or have mentioned it without a commentary? Therefore, says M. Ferrand. "Rahmānaj was the title of a collection of naval instructions in Arabic, belonging to the twelfth century. This information is expressly confirmed in the thirteenth century by a passage in the Tārīkhu 'l-Mustabsir of Ibnu 'l-Mujāwir. It is not very probable that Arab sailing masters gave such a title to books of Arabic origin—by that I mean, conceived in Arabic, and written by Arabs, away from all Persian influence. Sailors of the twelfth century, such as those of Southern Arabia, would not have published the bilingual character of books, for the mere glory of being thought to know Persian. In books of this sort, the author ought to be clear and intelligible to a simple captain of moderate education. One can hardly believe that an instruction destined for our own sailing ships would be called 'The Nautical Directory' and would be followed by a French text. The unavoidable explanation seems to be this: The old Persian sailors of the Persian Gulf used instructions by the name of Rahmānaj. At some time they were translated into Arabic for the use of Arab sailors, and the original name of these instructions was preserved in the metathesised form. In other words, the Arabic naval instructions of the twelfth century are based on

¹ G. Ferrand, L'Élément Persan dans les textes Nautiques Arabes des xv° et xvr° siècles, *Journal Asiatique*, Avril-Juin, 1924, p. 213:

ذكر السبعة الطيور قد ذكر مولف كتاب الرهباني انّه اذا سافر هذا مسافر في هذا السعر سبعة طيور في لجم البحار يعلم آنه مقابل جزيرة سقطري ² Idem, p. 212: الراهنامم بسكون الهاء و فتح الهيم فارسية استعملها العرب و اصلها راه نامه و معناه كتاب الطريق ³ Idem, pp. 234-235.

It is not, however, only in Arabic works that the Rahnama is mentioned, for in trying to study the nautical vocabulary of Persian poets, I found this interesting information in the Iskandar-nāma of Nizāmī of Ganja1:

رفتن اسکندر بهند و چین و دریا

سوی ورف آمد ز دریا کنار بدریا مطلق در افگند بار سوی باز پس گشتن آمید نیاز درفشنده ماننسد یکسهاره نور ز میل محیطی همه ترس کار چنین گفت با شاه بسیاردان بسوى محيط است جنبش نهاي از آن سوی منزل دگر نگذریه از آنسوی دریا کس آگاه نیست

جهانور جهان راند در آب شور جهان میدواندش زهی دست زور چو یکچند کشتی روان شد در آب یدید آمد آن سیل دریا شتاب که سوی محیط آب جنبش نهود بیاز آمدن باز گشتش نبود نواحی شناسان آب آزمای هرآسنده کشتند از آن ژرف جای ز رونامه چون راه جستند باز جزیره یکی گشت پیدا ز دور گرفتند لختی در آنجا قرار ز پیران گشتی یکی کاردان که این مرحله منزلی مشکل است برونامها در پسین منزل است دلیری مکن کآب این ژرف جای اكر منزلي رخت زآن سو بريم سكندر جو زين حال آگاه گشت كزين سيل كه پيش نتوان گذشت طلسمى بفرمود برداختن اشارت كنان دستش افرآختن کزین پیشتر علق را راه نیست

How Alexander went to India and China and sailed on the Sea.

From the sea-shore he came to the deep and cast a burden (i.e. launched a boat) on the mighty sea.

The Lord of the World (i.e. Alexander) drove merrily along the salt sea, and made the boat to leap; bravo, the (skilful) hand of the chief!

When the ship had covered a little distance in the sea there appeared an oceancurrent

Which swept the waters towards the circumambient sea, whence all return was impossible.

The old navigators, acquainted with the locality, were frightened by that perilous belt:

¹ The text is from an unnumbered MS, in the Lytton Library, 'Aligarh, See India Office MSS. Ethé 972 f. 408° and Ethé 973 f. 357°-358°.

And when they consulted the *Rahnāma* again, they found it was imperative for them to return.

There appeared an island at a distance, shining like a blaze of light.

And they stayed there for a while—all (on board) frightened with the circum-ambient sea.

Said an experienced old seaman to the well-informed king:

'This temporary shelter is precarious, for this is the very last port according to the Rahnāma.

Be not adventurous, for the water of this bay is flowing out to the circum-ambient sea.

If we proceed any farther, we shall not find another port.'

And when Alexander came to know that it was impossible to proceed beyond the (ocean-) current

He ordered a magical image to be set, with its hand upraised as a warning:

'This is the ne plus ultra of navigation, and of what lies beyond in the sea no man has knowledge.'

As the Iskandar-nāma or the Romance of Alexander was written in 587 A.H. (1191 A.D.)1 it is the earliest book which contains a reference to the Rahnāma, for the Tūrīkhu 'l-Mustabsir and the Kitābu'l-fawā'id fī uṣūli'l-'ilmi'l-bahrī wa'l qawā'id are chronologically posterior to the *Iskandar-nāma* by forty-three lunar years and three hundred and eight lunar years respectively. Now the Rahnāma is supposed to have been written, amongst others, by Laith bin Kahlan, whose grandson transcribed a copy in 580 A.H. Putting thirty years to a generation for in the East maturity comes early, Laith bin Kahlan must have written about 520 A.H. It is impossible that a nautical treatise produced for the first time in about 520 A.H. should become so familiar by 587 A.H. that it should be cited twice in one small stanza by a landsman like the poet Nizāmī. Therefore, the book must have existed before the date of its supposed composition, or, in other words, as M. Ferrand has independently concluded, the Rahnāma of Laith bin Kahlān was not an original work but an Arabic translation of a lost Pahlawi work—the Rahnāma. And this Rahnāma, which contained

¹ E. G. Browne, A Literary History of Persia, Vol. II., p. 400. The date has been fixed by Bacher on internal evidence.



information about shore-sighting birds, and ports, and oceanic currents, and which, according to its own title, regarded the sea not as a barrier but as a commercial highway, must have been the final authority on navigation in the Southern Sea, for, apart from being cited by the nautical texts of the Arabs, why should it have been translated into Arabic at all?

But in order, as it were, that the way of a ship in the midst of the sea may remain unknown1 the Persian originals have been ifrecoverably lost, and it is far more difficult therefore to write a history of Persian ships than of Persian shipping. Thirty-six different kinds of boats, for example, are mentioned by Muqaddasī² -safīnah, jūsūs, zawrag, raggīyah (?), talawwā, 'irdās, tayyār, zabzab, kūrawānīyah, muthallathah, Wāsitīyah, malgūtah, shankūlīvah, burākīvah, khaitīvah, shamūt, musabbahīvah, jabalīvah, Makkīyah, zīrbādīyah, barkah, sūgīyah, ma'bar, walajīyah, tairah, barani, shabu, markab, shadha, burmah, qarib, dunij, hamamah, shīnī, shalandī, bīrajah—and in this list, given at a time when the majority of the shipbuilders along the circuit of the Arabian peninsula were Persians, the very presence of a Persian name appears like an alicn intrusion. More material is consequently needed to explain the anomalous situation that a majority of Persian shipbuilders produced an overwhelming majority of Arab boats, and more material is also needed to give the structure and classification of such ships as were genuinely Persian. But this material is not forthcoming and it is not possible to discuss either the anomaly or the certainty.

The maritime activity of Persia, indeed, has never been so well exhibited in dockyards as on the open sea, and, during the tenth century especially, Persia was being driven to the sea even more

¹ Proverbs xxx. 18-19.

² De Goeje's ed. of Muqaddasī (1906), pp. 31–32:

سفينة جاسوس زورق رقَّيَّة تَلَوَّي عرداس طيَّار زَبْزِبَ كاروانيَّة مثَلَّثه واسطيَّه ملقوطة شنكولية بُراَكِيَّة خيطيَّة شموط مسبَّحيَّة جبليَّة مكيَّة زيرباذيَّة بركة سوقيَّة معبر ولجيّة طيرة برعاني شبوق مركب شذًا برمة قارِبُ دُونيِج حمامة شيني شلندي بيرجة

successfully than she had been drawn to it. For whilst the seatraders of Fārs and Kermān had merely acquired the status of merchant-princes in 'Umān and Yemen, bands of Persian, or rather Shīrāzian, emigrants had risen to the rank of ruling princes in Pemba and Zanzibar, Brava, Mogdishu, and Kilwa. Says the 'History of Kilwa',' compiled by Shaykh Muḥīu'd-Dīn of Zanzibar in 1862 A.D. from a lost Arabic history known as the Sīratu 'l-Kilawīyah:

Historians say that the first to come to Kilwa was a ship in which were men who reported that they had come from the land of Shīrāz in the country of Persia. It is said that there were seven ships—one went to the land of Mundakha; the second to Shawghu; the third to Yanb'a (Pemba); the fourth to Munfasa (Mombasa); the fifth to the green island (Zanzibar); the sixth to Kilwa; and the seventh to Hinzawān. And they say that all the people of the six ships were brothers, and the master of the ship which went to Hinzawān was their father....And the cause of the departure of these people from their motherland—the land of Shīrāz in the country of Persia—was that their sultān named Ḥasan b. 'Alī was the father of six sons, Ḥasan b. 'Alī himself being the seventh (of the family)....And the sultān said to his sons, 'I suggest emigration from this city to another.'...(And they all agreed) and went by land to one of the ports, and embarked in seven ships, and sailed away with the guidance of God. And He cast them on the land of Sawāḥil (the littoral of East Africa), and the ships were separated and came to the countries we have mentioned.

¹ The History of Kilwa, J.R.A.S., 1895, pp. 411-413:

ذكر اهل التواريخ فيها زعبوا ان اول من وصل الي كلوة وصلت سفينة فيها اناس يزعبون انهر من بلاد شيراز من بلاد العجم وقيل انهر كانوا سبعة مراكب فواحد دخل في بلاد منفخه و الثاني دخل في بلاد شوع و الثالث دخل في بلاد ينبع و الرابع دخل بلاد منفشة و الخامس دخل بلاد الجزيرة الخضرا و السادس دخل بلاد كلوة و السابع دخل بلاد هنزوان فذكروا انّ جبيع اهل البراكب الستة اخوة و صاحب البركب الذي دخل هنزوان هو ابوهم ابنانه كان سبب خروج هولاء القوم من بلادهم بلاد شيراز من بلاد الفرس انّ سلطانهم الهسيّي بحسن بن علي و هو ابوهم و كان اولاده ستة و هو السابعفقال لهم ابوهم اني اري من راي الانتقال من هذا البلد الي بلد آخر.....فتوجهوا من طريق البر الي بعض البنادر وركبوا في سبع مراكب وسافروا متوجهين الي الله تعالى فرمي الله بهم الي ارض السواحل فتفرقت البراكب ودخل متوجهين الي الله تعالى فرمي الله بهم الي ارض السواحل فتفرقت البراكب ودخل مركب في بلاد التي ذكرناها

It was the sixth ship, containing 'Alī the son of Ḥasan b. 'Alī, which cast anchor at Kilwa, then connected with the continent by a narrow neck of land and owned by a chief of the Almūlī tribe. And in Kilwa there was a mosque and a Muslim family, and with the aid of the patriarch of this family, the newcomer succeeded in negotiating the exchange of Kilwa for coloured cloth, and in protecting the place from attack by deepening the connecting channel. And so began Shīrāzian ascendancy in the Sea of the Zanj in the middle of the third century of the Hijra¹.

'Alī extended his sway to Mombasa and ruled over Kilwa for forty years. Of his five sons, Muḥammad was governor of Mombasa for two years and a half, and Basḥat was governor and afterwards king of Mombasa for four years and a half, whilst 'Alī II, the son of Basḥat, succeeded his grandfather to the throne of Kilwa. 'Alī II ruled for four years and a half, and was followed by his uncle Dā'ūd, who, after a reign of two years, abdicated in favour of his son 'Alī III, a cousin of 'Alī II.

The subsequent history of Kilwa is, similarly, an enumeration of the kings of Kilwa with the number of years they reigned. It may appear presumptuous for an undated and anonymous record, of which the elusive hero Ḥasan or Ḥusain cannot even be identified, to arrogate to itself the title of history, but that the record is substantially correct is borne out in several ways. Firstly, because all mitepe, or the native craft, still fly a white pennant and a red flag in memory of the flag of the Persian sultān, named 'Alī, who lived at Shangaya on the East African coast². And it is not difficult to recognize in this Shangayan 'Alī the traditional founder of Kilwa. Secondly, because the claimants to Shīrāzian descent in Pemba and Zanzibar, namely the Wapemba, the Wahadimu, and the Watumbatu, still retain the tradition of ships having arrived

وذلك في اوساط القرن الثالث

But, according to Major Pearce, Kilwa was founded in 975 A.D. See Zanzibar, p. 345.

¹ The History of Kilwa, J.R.A.S., 1895, p. 414:

² F. B. Pearce, Zanzibar, n. 1, p. 29, London (1920).

from Shīrāz at various periods in the distant past. "And in many of these independent accounts by modern natives, who have certainly never heard of the Kilwa chronicles, the same names crop up as in the old records; and it is frequently stated that some of the original immigrants staved at one place, while others of the party proceeded farther south and founded cities at other points on the coast1." Thirdly, because some of the names of the later sultans. as given by the 'History of Kilwa,' have been identified with those on numerous copper coins, picked up on the sea-shore of Mafia island². Fourthly, because the Yu van tsa tsu, which was written in the ninth century, states of the Berbera coast that "when Po-ss" (Persian) traders wish to enter this country, they form a caravan of several thousand men, and after having made (the natives) a present of strips of cloth, all of them both young and old draw blood by pricking themselves and take an oath, after which they trade their goods3." And fifthly and finally, because there are abundant and unmistakable relics of Shīrāzian occupation, both in the Azanian littoral, and the islands of Zanzibar, Pemba, and Mafia.

These relics are of two kinds—movable and immovable. For apart from the carnelian beads of Pemba, Zanzibar, and Eastern Pondoland, which the museum authorities of South Africa believe to be of Persian manufacture, and to date from the eleventh to the fifteenth century, Persian-made pottery with blue glaze and lustre decoration has been discovered in several places in East Africa. In itself the presence of Persian ware does not exclude the possibility of Arabian transport, but there is the debris of Shīrāzian towns on East African soil, with the earth-bound roots of mosques and tombs.

"There can be little doubt," says Major Pearce, "that the Persians, or Shirazis, who arrived on the east coast of Africa at a very early date—Professor Stuhlmann, for instance, says towards the close of the sixth century—introduced the art of building in stone, the production of lime and cement, wood-carving, and

¹ F. B. Pearce, Zanzibar, n. 1, p. 42, London (1920).

² Idem, n. 1, p. 44.

⁸ F. Hirth and W. W. Rockhill, Chau Ju-kua, p. 129, St Petersburg (1911).

RUINED MOSQUE, KILWA



the weaving of cotton. During the period from the ninth to the twelfth century they built many mosques, both on the Azanian coast as well as in such islands as Zanzibar, Pemba, and Mafia, and they reached the height of their fame towards the close of the fourteenth century.

The chief characteristics of their architectural style are the pointed arch, the free employment of dressed limestone for the edgings of pillars and doorways, the utilisation of squared roof and floor beams, the rectangular wall-recess as distinct from the rounded or pointed recesses of the Arabian style, the rectangular window, and the peaked and divided keystone—a very distinctive feature. It may be noted also that the stone courses and mouldings of their doorways and arches are invariably cut at less than a right angle—generally 85°. Apart from these typical characteristics, the refinement of design marks the Shirazian work as different from all other styles met with in buildings in East Africa.

In classifying the ruins of Zanzibar and Pemba according to their architectural styles, we find that the oldest are the most artistic, being of Shirazian design; this architectural period was succeeded by what may be called the Arab-Shirazian epoch, which in turn gave way to the cruder Arab-African. It is worthy of note that nearly every ruined town in the Sultanate (of Zanzibar) is built on an island, or on a peninsula which is nearly surrounded by the sea at high tide¹."

In expressing his opinion, Major Pearce has supplemented a study of Burton, Strandes, and Stuhlmann, with observation in situ conducted during his stay in Zanzibar as the British Resident. Consequently his opinion is reliable; but, to err on the safe side, only that type of architecture is here considered which is admittedly Persian. Such, for example, are the pillared tombs of Ndagoni and Tongoni, and the ruined mosques of Tumbatu, Ndagoni, Chwaka, Kilwa, and Kilwa Kissiwani. Says Dr Strandes of a Shīrāzian mosque at Kilwa:

"The whole construction consisted of nine cupolas in three rows, supported by pillars and the exterior walls. The central cupola is surrounded by a column of phallic shape...The pillars and framework of the wall apertures are constructed of hewn stone, and the whole proportions show a wonderful harmony?"

¹ F. B. Pearce, Zanzibar, pp. 351-352, London (1920).

² Justus Strandes, Die Portugiesenzeit von Deutsch- und Englisch-Ostafrika, p. 89, Berlin (1899).

Similarly writes Prof. Stuhlmann:

"During the period from the ninth to the twelfth centuries, the Shīrāsīs built many mosques, decorated with artistic pillars and cupolas. In a mosque at Kilwa Kissiwani, there are forty columns arranged in four rows...the columns divide the mosque into squares, each surmounted by a cupola...The characteristics of these buildings are the use of well-hewn sandstone, which was used for the lintels of the doors, the framework of the windows, and the qibla¹."

And finally the entire argument is summed up by Major Pearce in his description of the ruins on Tumbatu Island:

"The Tumbatu mosque is situated within a few feet of the sea, on the top of a small eminence which rises from the sea-beach. This proximity to the sea is significant, as indicating that the builders belonged to a race who had command of the sea....The chief feature of interest in the mosque is the range of four arched doorways in its eastern wall. These doorways gave access to a side mosque or chapel, which adjoins the main body of the large mosque. The doorways are worthy of attention, as typical of the best characteristics of the Shirazian style of architecture, and in proportion and design they would not disgrace some famous Gothic gateways of Europe²."

À propos of the pillared tombs, "each grave is surrounded by a wall from 4 to 6 feet in height, and from the top of this encircling wall rises a remarkable masonry pillar or stele 15 feet in height. Some of the pillars are plain and without embellishment, while others either have Chinese bowls or plates cemented into their surfaces, or are decorated near the summit by rectangular or arched panels incised in the stone³." In a pillared tomb at Tongoni, Burton found a Persian glazed tile with a portion of an inscription in Persian characters, which read: <u>Sh</u>ūd-i-rawshan..... 'the resplendent sun'?

The broad facts of the 'History of Kilwa' are therefore substantiated by archaeological evidence but since the East African littoral has not been systematically explored it is yet too early to strive after chronological precision. For Rigby, in his *Report on the Zanzibar Dominions* (p. 47), gives 924 A.D. and 984 A.D. as the

¹ Franz Stuhlmann, *Handwerk und Industrie in Ostafrika*, p. 97, Hamburg (1910).

² F. B. Pearce, Zanzibar, pp. 399-400, London (1920).

⁸ Idem, p. 365.



A PILLARI'D TOMB AT NDAGONI, PEMBA



probable dates for the foundation of Mogdishu and Kilwa, whilst the dates adopted by Major Pearce are 908 A.D.¹ and 975 A.D.² respectively. Similarly, according to the *Encyclopaedia Britannica*:

"The sultanate of Kilwa is reputed to have been founded about A.D. 975 by Ali ibn Hasan, a Persian prince from Shiraz, upon the site of the ancient Greek colony of Rhapta³."

But all the three authorities are equally arbitrary, for they have interpreted the Arabic text—

The first man who ruled over the land was the sultan 'Alī. This was in the middle of the third century of the Hijra.

—neither liberally nor literally⁴.

The end of the Shīrāzian sultanates is even more indeterminate than the beginning. For after a period of great prosperity during the twelfth and the thirteenth centuries, when the empire of Kilwa extended to the port of Sofāla and controlled the shipment of gold from the Zimbabwe mines, the Persian element became so attenuated by fusion with the African race, and so inconspicuous by Arab preponderance in the Sea of the Zanj that in the Portuguese accounts of the early years of the sixteenth century it has actually been reduced to zero. Says Duarte Barbosa for example:

"When the King of Portugal discovered this land (Kilwa), the Moors of Sofala, Zuama, Anguox, and Mozambique were all under obedience to the King of Quiloa (Kilwa), who was a great king amongst them. And there is much gold in this town, because all the ships which go to Sofala touch at this island, both on going and coming back. These people are Moors, of a dusky colour, and some of them are black and some white....The speech of these people is Arabic....

There is another very large and beautiful town called Magadoxo (Mogdishu), belonging to the Moors, and it has a king over it, and is a place of great trade in merchandise. Ships come there from the kingdom of Cambay and from Aden with stuffs of all sorts, and with other merchandise of all kinds,

¹ F. B. Pearce, Zanzibar, p. 46, London (1920).

² Idem, p. 345.

⁸ Encyclopaedia Britannica, article on Kilwa (Quiloa).

^{4 350} A.H. = 961 A.D.

and with spices. And they carry away from there much gold, ivory, beeswax.... All the people speak Arabic; they are dusky and black and some of them white 1."

Probably the white Moors were <u>Sh</u>īrāzian hybrids, but like their modern descendants, the Wapemba and the Wahadimu, they had long ceased to be a factor in the government of the country.

Meanwhile the Gulf of Persia was also becoming like the Sea of the Zanj an arm of the Arabian Sea. Politically, indeed, this had already been effected as early as the caliphate of 'Umar and 'Uthmān, but as the coastal Arab was not militant and the Ḥijāz Arab not essentially a sailor, and as, moreover, the coastal Arab compared to the Persian navigator was 'but young in deed,' the disappearance of the Persian flag, after the rise of Islām, was not accompanied by a simultaneous disappearance of Persian shipping. Therefore, as has already been pointed out, whilst the Persians lost their independence on land, they still retained their independence at sea.

And so matters continued for a while till the caliphate of Al-Mutawakkil (847-861 A.D.). By that time the Arab sailor had substantially lessened the inequality between himself and the Persian, and was only waiting for the removal of the bar on private enterprise, created by the existence of a strong central government, to seize the rich traffic which passed through the Gulf of Persia. The decline of the Caliphate gave this equality of opportunity and gave it freely; and therefore, just at a time when Persia had begun to recover on land the independence she had lost, she had begun to lose at sea the independence she had retained. And but for acute rivalry between the Arabs themselves, manifested by the intermediate reversions of trade from Sīrāf to Qais and Qais to Sīrāf, and then once again to Qais and back to Sīrāf², until the recession

¹ Duarte Barbosa, A Description of the coasts of East Africa and Malabar in the beginning of the 16th century, tr. by E. Stanley, pp. 11 et 16, London (1866).

² G. P. Badger's edition of the *Imâms and Seyyids of 'Omân*, Postscript, p. 411, London (1871).

of the Eastern terminus to the island of Hurmuz¹, it would have been impossible for Persia even to retain her unarmed shipping, much less to launch a fleet in the Gulf and participate in open warfare, as late as the thirteenth or even the fourteenth century of the Christian era. Says the geographer, Qazwīnī, circa 1268 A.D.:

"Qays is an island in the Persian Sea, four farsangs in circumference. Its town is fair and pleasant to look upon, having a wall and gates, gardens and buildings. It is a haven for Indian and Persian ships, and a market of trade and commerce to the Arabs and Persians². Water there is obtained from wells, but the rich have tanks. All the islands around it belong to the lord of Qays....

The sovereignty of Qays belonged to a people who had inherited it, until a tyrant arose from among them whom they deposed. They then called in the lord of Hormuz, and the al-Hormuzy came and ruled over it; but he turned out to be more tyrannical than the al-Qaysy, so they deposed him also, and applied to the lord of Shiraz, who mustered soldiers, and dispatched them in ships; whereupon the soldiers of the al-Hormuzy went forth in ships to fight them, and during the voyage disembarked on a cliff to rest. While they were on the cliff, the ships of the Persians set fire to the ships of the Hormuzeans, and then pursued their course to al-Qays, which they easily captured. Nevertheless, the Hormuzeans were stronger and more expert in sea warfare than the Persians; but in this instance their energy was not brought into play³."

¹ "In the year 1302 A.D. there came out of Turkestan great hordes of Turks, and conquered many lands in Persia. They attacked the kingdom of Kermon and next that of Harmuz, and wasted it all;...the Harmuzis unable to withstand such troubles, made up their minds to abandon their lands, and so they did.

The isle of Queixome, or Broct, lies along the Persian coast, parted from it by a narrow sound....Ayaz (King of Hurmuz) ordered the Harmuzis to cross into this isle and they obeyed willingly."

This explanation (*The Travels of Pedro Teixeira*, tr. F. Sinclair, London, 1902, pp. 160-161) of the abandonment of the coastal town of Hurmuz and the colonization of the island is unsatisfactory, for the Mongols hardly reached the Persian coast; but the date of the transfer, 1302 A.D., is probably correct.

² Zakarīyā b. Muḥammad b. Maḥmūd al-Qazwīnī, Āthāru 'l-Bilād wa Akhbāru 'l-'Ibād, F. Wüstenfeld, p. 161, Göttingen (1848):

قيس جزيرة.....و هي مرفأ مراكب الهند و الفرس و منقلب التجارة و متجر العرب و العجير شربها من الإيار

3 Idem:

و بعثوا الي صاحب شيراز طلبوه فجهز عسكراً بعثهم في مراكب و خرج عسكر الهرمزي

Similarly, according to a chronicle composed by Tūrān Shāh, King of Hurmuz¹, a Persian fleet reappeared in 1314 A.D. to restore the balance of power in the Gulf of Persia:

"The King of Xiras² at once got ready his forces and proceeded to the island of Cays, where he prepared many boats, called by them *terradas*; and in these crossed over with his forces to the island of Angam which is two leagues from Ormuz, where the King of Ormuz attacked him, and gave him battle, and defeated him. And having been defeated, though not utterly, he sent a proposal to the King of Ormuz, that he should give up to him his treasures, and those of his predecessors; and that, if he were not willing to do this, he would wage war on him with fire and sword until he had utterly destroyed him. To these words the King of Ormuz replied, asking, how a man of such low origin as he was, who was descended from merchants, dared to propose such a thing to a king who...had nothing to fear from him.

Seeing himself thus affronted, the King of Xiras returned to Cays and reinforced himself afresh with troops, and more ships, and returned with greater force against Ormuz, and not daring to give battle to the king, strove cunningly to come to parley with him, and craftily seized him, and sent him captive to the island of Cays, and he himself proceeded to lay siege to the island of Ormuz....

The siege lasted several months. Then the King of Xiras, seeing that he could not take Ormuz, and that the winter was coming on, and that it would not be safe for him to go by sea, returned to Cays, with the resolve to come back once more against Ormuz the following year.

He returned thence in six months, bringing with him the King of Ormuz whom he had captured. But on the voyage a tempest overtook him, which scattered and destroyed his fleet. And it happened in this dispersal that the terrada, in which was the King of Ormuz who had been captured, came to land at Ormuz....

The King of Xiras did not care to tempt Fortune again and departed for his kingdom, abandoning the conquest of Ormuz³."

لقتالهم في مراكب فنزلوا في سيرهم علي نشز للاستراحة فوصلت مراكب الفرس و هم علي النشز فاضرموا النار في مراكب الهرامزة و ساروا نحو قيس و ملكوها باسهل طريق و كانت الهرامزة اقوي من الفرس و اعرف بقتال البحر الّا ان جدّهم قعد بهم

¹ Tūrān Shāh died after a reign of 30 years in the year 1378 A.D. See The Travels of Pedro Teixeira, tr. W. F. Sinclair, p. 188, London (1902).

² i.e. the governor of Shīrāz, called, elsewhere, Malek Ayzadin.

³ The Chronicle of the Kings of Ormuz, given in The Travels of Pedro Teixeira, tr. W. F. Sinclair, pp. 263-264, London (1902).



THE WORLD ACCORDING TO QAZWINI (Numa wi-qu. ii - 82 Mar 3.5. Add 23 544, od 226*)

And so the Shīrāzian alliance with Qais, though it failed in the immediate object of reducing Hurmuz, succeeded eventually in preventing a concentration of Arab forces against the maritime activity of Persia. Chiefly for this reason, and partly because the conciliatory policy of the Atabeks had saved the province of Fārs from the atrocities of Mongol rule¹, the Persian trader was still flourishing as late as the fifteenth or even the sixteenth century of the Christian era. The Venetian traveller, Nicolò Conti, for example,

"After leaving the island of Ormuz and turning towards India for the space of one hundred miles, arrived at the city of Calacatia, a very noble emporium of the Persians. Here, having remained for some time, he learned the Persian language, of which he afterwards made great use, and also adopted the dress of the country; which he continued to wear during the whole period of his travels. Subsequently he and some Persian merchants freighted a ship, having first taken a solemn oath to be faithful and loyal companions to one another²."

After travelling extensively in the Southern Sea, Nicolò Conti returned to Vcnice in 1444 A.D., and about the same time, between 1442 and 1444 A.D., 'Abdu'r-Razzāq b. Isḥāq visited South India as the ambassador of Shāh-rukh to the court of Vijayanagar.

"In the year 845 A.H. (= 1442 A.D.)," writes 'Abdu'r-Razzāq, "I arrived at Hormuz, and the governors sought all kinds of pretexts to detain me; so that the favourable time for departing by sea, that is to say the beginning or the middle of the monsoon, was allowed to pass, and we came to the end of the monsoon, which is the season when tempests and attacks from pirates are to be dreaded. Then they gave me permission to depart. As the men and horses could not be contained in the same vessel, they were distributed among several ships. The sails were hoisted, and we commenced our voyage.

As soon as I caught the smell of the vessel, and all the terrors of the sea presented themselves before me, I fell into so deep a swoon, that for three days respiration alone indicated that life remained within me. When I came a little to myself, the merchants, who were my intimate friends, cried with one voice that the time for navigation was passed, and that everyone who put to sea at

¹ E. G. Browne, A History of Persian Literature under Tartar Dominion, pp. 15-16, Cambridge (1920).

² The Travels of Nicolò Conti in India in the Fifteenth Century (Hakluyt Society), p. 5, London (1857).

this season was alone responsible for his death, since he voluntarily placed himself in peril. All, with one accord, having sacrificed the sum which they had paid for freight in the ships, abandoned their project, and after some difficulties disembarked at the port of Muscat....Finally (we set sail from Kalahat) and after a voyage of eighteen days and as many nights cast anchor in the port of Calicut¹."

To his translation of the Maila 'u's-Sa'dain Mr Major has added a prefatory note:

"The Persians seem to have had an unconquerable aversion to the sea,—a ludicrous example of which we have in the singular instance of the voyage (before us)...The droll pathos with which the ambassador bemoans his sad lot in having to undergo so many hardships, loses nothing from the florid exaggeration of Oriental hyperbolc²."

Much will be said on this point later on; meanwhile, the description of the voyage is not the only item of interest in 'Abdu'r-Razzāq's narrative. The commercial grandeur of Hurmuz and Calicut, the desire to establish friendly relations with Southern India, the length of the voyage from Kalahat to Calicut—about eighteen days by a favourable wind—and finally, the shipment of horses to India from the port of Hurmuz, a fact emphasized by Marco Polo as early as 1272 A.D.³,—all this is stated with the fidelity of personal observation. But as 'Abdu'r-Razzāq was essentially a

¹ The Matla 'u's-Sa'dain, British Museum MS. Or. 1291, f. 201° et seq. See India in the Fifteenth Century (Hakluyt Society), pp. 7 et 13, London (1857).

² India in the Fifteenth Century, Intr. by R. H. Major, p. iv (Hakluyt Society), London (1857).

3 The Travels of Marco Polo, Ch. XVII.:

"The vessels built at Ormuz are of the worst kind, and dangerous for navigation, exposing the merchants and others who make use of them to great hazards....The vessel has no more than one mast, one helm, and one deck. When she has taken in her lading, it is covered over with hides, and upon these hides they place the horses which they carry to India....The consequence is, that in bad weather (and these seas are very tempestuous), the vessels are frequently driven ashore and lost."

It is likely that the horses brought in the first century A.D. "from distant lands beyond the seas" to Kaviripaddinam (Pukâr or Camara) were Persian horses. Supra, p. 53.

landsman it is best perhaps to turn to a sailor, like Duarte Barbosa, for a description of Hurmuz.

"The inhabitants of this island and city are Persians and Arabs, and they speak Arabic and another language which they call Persian. They are very white, and good-looking people, of handsome bodies, both men and women; and there are amongst them black and coloured people also, who are from the country of Arabia. And the Persians, who are very white, are fat and luxurious people. who live very well. They are very voluptuous, and have musicians with various instruments. There are among them very rich merchants, and many ships. because they have a good port; and they trade in many kinds of goods, which are imported there from many parts; and exported thence to other parts of India. They bring there all sorts of spices, drugs, precious stones, and other goods, such as pepper, ginger, cinnamon, cloves, mace, nutmeg, long pepper, aloes-wood, sandalwood, brasil-wood, balsam, tamarinds, Indian saffron, beeswax, iron, sugar, rice, cocoanuts, rubies, sapphires, giagonzas (zircon), amethysts, topazes, chrysolites, hyacinths, porcelain, benzoin; and upon all these goods much moncy is made, and many stuffs from the kingdom of Cambay, Chaul, Dabul, and Bengala, which are called Sinabasos, Chautars, Mamonas, Dugasas, Soranatis, which are kinds of stuffs of cotton very much valued amongst them for caps and shirts, which are made use of by the Arabs and Persians, and people of Cairo, Aden and Alexandria. They also bring to this city of Ormuz, quicksilver, vermillion, rose-water, brocade and silk stuffs, scarlet woollens, coarse camelots, and silk. And from China and Catuy they bring to this city by land much fine silk in skeins, and very rare musk and rhubarb; and they bring from Babilonia very fine torquoises, and some emcralds, and very fine lapis lazuli from Acar. And from Baharem and Julfar they bring much seed pearl, and large pearls, and many horses from Arabia and Pcrsia, of which they carry away to India every year as many as five or six hundred, and at times a thousand; and the ships which export these horses load much salt, dates, and raisins, and sulphur, and of the other goods which the Indians are pleased with.

These Moors of Ormuz are very well dressed, with very white, long, and fine cotton shirts, and their fine drawers of cotton, and above that, very rich silk clothes and camelots, scarlet cloth, and very rich gauzes, with which they wrap their waists, and they wear in their girdles daggers and knives, ornamented with gold and silver, and some heavy short swords, all adorned with gold and silver, according to the rank of the wearers: and large round shields, richly garnished with silk, and in their hands they carry Turkish bows, painted with gold and very pretty colours, and their cords are of silk. These bows are of stiff wood and of buffaloes' horn; they carry very far, and these people are very good

archers; their arrows are slender and well-worked. Others carry in their hands iron maces, well wrought and elegant; others again, battle-axes of various patterns and of very good temper, and inlaid or enamelled. They are very agreeable and polite people, and very civil in their mutual relations. Their food is of very good meats, very well cooked, wheaten bread, and very good rice. and many other dishes very well prepared, and many kinds of conserves, and preserved fruits, and others fresh: that is to say, apples, pomegranates, peaches, apricots, figs, almonds, melous, radishes, salads, and all the other things which there are in Spain; dates of many kinds, and other eatables and fruits not used in our parts. They drink wine of grapes in secret, because their law forbids it them; and the water which they drink is flavoured with pistachio nuts, and set to cool for which purpose they employ and seek many methods for cooling and preserving it cool. And all the noblemon and honourable merchants always take, wherever they go, both in the streets and public places, and on the road, a page with a bottle of water, which is covered underneath with silver, or with a silver cup, as much for state and show as for use and comfort. All these people possess gardens and farms, to which they go to enjoy themselves for some months of the year1."

The social life of Hurmuz, as described by Barbosa, is so typically Persian that we need not have been expressly told: "the inhabitants of this island and city are Persians and Arabs, and they speak Arabic and another language which they call Persian." But it is time to leave Hurmuz and proceed with Barbosa to the ports of India.

"The Moors of Cambay are white, and of many countries: both Turks, and Mamelukes, Arabs, Persians, Khorasanys, Turkomans, and from the great kingdom of Dily, and others born in the country itself....And these Moors of Cambay speak many languages, that is to say, Arabic, Persian, Turkish, and Guzaraty²."

Similarly, there were Persian colonists and traders in the port of Calicut:

"There were other foreign Moors in Calicut, whom they call Pardesy. These are Arabs, Persians, Guzarates, Khorasanys, and Decanys: they are great merchants, and possess in this place wives and children, and ships for sailing to

¹ Duarte Barbosa, A Description of the coasts of East Africa and Malabar in the beginning of the 16th century, tr. E. Stanley, pp. 41-43, London (1866). ² Idem, p. 56.

all parts with all kinds of goods....And in this manner they prospered until the Portuguese came to India: now there are hardly any of them, and those that there are do not live at liberty¹."

The maritime activity of Persia, however, was not confined merely to the western coast of the Indian Peninsula: there was an important colony of Persian merchants in Bengala², the homonymous capital of the province of Bengal.

"Many foreigners from various parts live in this city, both Arabs and Persians, Abyssinians and Indians, who congregate here on account of the country being very fertile and of a temperate climate. They are all great merchants and own large ships of the same build as those of Mekkah, and others of the Chinese build which they call jungos, which are very large and carry a very considerable cargo. With these ships they navigate to Cholmender, Malabar, Cambay, Peigu, Tarnasari, Samatra, Ceylon, and Malaca; and they trade in all kinds of goods, from many places to others. There is much cotton in this country: the Arabs and Persians make caps of this stuff, in such great quantities, that every year they fill several ships with them for different places...The Moorish merchants of this city go into the interior of the country and buy many Gentile children of their fathers and mothers, or of others who steal them, and castrate them. Some of them die of it, and those who recover they bring them up very well, and sell them as merchandise for twenty or thirty ducats each to the Persians, who value them much as guards to their wives and houses³."

Similarly, according to the Portuguese historian, João de Barros⁴ (1496–1570 A.D.), there were wealthy and influential Persians in the town of Malacca:

"The greatness of Malacca induced the kings, who followed Xaquem Darsa (Sikandar Shāh), to throw off their dependency on the kings of Siam, and this

- ¹ Duarte Barbosa, A Description of the coasts of East Africa and Malabar in the beginning of the 16th century, tr. E. Stanley, pp. 146-148, London (1866).
- ² "Bengala occupied a position between the Hattia and Sundeep islands situated at the present mouth of the Brahmaputra." See the note "On the site of the ancient city of Bengala" (Intr. cxiv-cxxi) in *The Travels of Ludovico di Varthema*, Hakluyt Society, London (1863).
- ³ Duarte Barbosa, A Description of the coasts of East Africa and Malabar in the beginning of the 16th century, pp. 179-180, London (1866).
- 4 He was not an eye-witness, "but placed in charge of the Indian records had the best means of obtaining accurate information."

chiefly, since the time when they were induced by the Persians and Gujarati Moors, who came to Malacca and resided there for the purpose of trade, to become converts from Gentiles to the sect of Muhammad¹....

In matters of trade, the Malays are artful and expert, for, in general, they have to deal with such nations as the Javanese, the Siamese, the Peguans, the Bengalis, the Quelijo, Malabaris, Gujaratis, Persians, and Arabians, with many other people, whose residence here has made them very sagacious²....

This busy trade lasted until our arrival in India, but the Moorish, Arabian, Persian, and Gujarati ships, fearing our fleets, dared not, in general, now undertake the voyage, and if any ship of theirs did so, it was only by stealth and escaping our ships³."

Elsewhere, De Barros and Barbosa do not mention the existence of Persian colonists or even of Persian traders: the stress of Hindu and Arab competition had apparently proved irresistible⁴. But where the Persian merchant could survive, as in the cosmopolitan ports of Hurmuz, Cambay, Calicut, Bengala, and Malacca, he appears to have survived vigorously. For even after Afonso

- ¹ João de Barros, *Da Asia*, Decade II., Bk. VI., ch. I., pp. 14-15, Lisbon (1777):
- "A grandeza da qual deo animo aos Reys que fuccedêram a efte Xáquem Darxá, que pouco, e pouco começáram de levantar a obediencia aos Reys de Sião, principalmente depois que eftes de induzidos por os Mouros Parfeos, e Guzarates, (que alli vieram refidir por caufa do commercio), de Gentios os convertêram á fecta de Mahamed."
 - ² Idem, p. 25.
 - ⁸ *Idem*, p. 26:
- "A qual groffura do trato durou mui corrente té a nossa entrada na India, que os Mouros Arabios, Parscos, e Guzarates temendo nossa Armadas, não ousavam tão geralmente commetter este caminho; e se alguma náo sua lá hia ter, era furtada da nossa vista."
- ⁴ Perhaps the statement requires toning down, for between 1504–1507 A.D. Ludovico di Varthema and a Persian trader in jewels are found sailing together from Hurmuz to the delta of the Indus, the maritime provinces of Bījāpūr, Quilon, Colombo, Pulicat (22 milcs north of Madras), Banghella (Bengala), Pegu, Malacca, Pider (in the island of Sumatra), Bandan (one of the Bandā group), Monoch (the Moluccas), Borneo and Java, and thence to Malacca, Negapatam, Quilon, and Calicut. See *The Travels of Ludovico di Varthema*, Hakluyt Society, London (1863).

Dalboquerque had ravaged the entire periplus of the Southern Sea, and led into captivity both the Hidalcão and the King of Hurmuz, the Persian merchants in Cambay were still

"One equal temper of heroic hearts, Made weak by time and fate, but strong in will To strive, to seek, to find, and not to yield."

"Some merchants from Persia were at court seeking for a remission of customs' dues, which had been levied from them (amounting to the value of the merchandise) on their last voyage by Malik Tūghān, the son of Malik Ayāz. They pressed Shāh Tāhir to intercede for them, and, though he at first refused, they at length compelled him by their importunities, to visit Malik Tūghān on their behalf. The Malik not only granted the request and returned the 60,000 rupees at once to the merchants, but also added valuable presents, and declared that they should not be asked for customs' dues on any other voyage¹."

This was in the year 1532 A.D., eighteen years after a captain of Shāh Ismāīl had tamely surrendered twenty terradas to the Portuguese², and seventeen years after the ambassador of Shāh Ismāīl had received the grim threat from Afonso Dalboquerque: "should merchants from Persia be found in any other district of India save the port of Goa, they should lose their merchandise and be made subject to the greatest penalties which he could inflict³." And, as both the Moors and the Gentiles knew, these penalties were fire and water.

¹ The Mir 'āt-i-Sikandarī, India Office MS. Ethé 438, f. 171^b-172^a:

تجار اهل خراسان که به بنادر گجرات آمد و رفت داشتند بشاه تکلیف این معنی نبودند که بهلك طوغان ابن ایاز که مولا زاده سلطان و میر بحر بنادر گجرات بود سفارش نهاید تا تبغای این بار که مقدار مال کلیه میشود بها معاف نهاید.....ملك تشریف قبول ارزانی داشت و گفت بعد ازین نیز تبغای ایشان بدفتر معاف ثبت نهودم که هرگاه بتجارت آیند کسی باینها تکلیف این معنی نکند و همدرین مجلس مبلغ کلیه مناسب او...گذراند

The translation is by Edward C. Bayley as given in his *Local Muhammadan Dynasties*, p. 355, London (1886).

² The Commentaries of the great Afonso Dalboquerque, second viceroy of India, tr. Walter de Gray Birch, p. 115, Vol. IV., London (1875).

⁸ Idem, p. 177.

There remains the fresh-water navigation of Muḥammadan or rather of <u>Ghaznawid</u> Persia. The evidence is meagre and is restricted to the punitive expedition of Sultan Maḥmūd against the Jats of Bhatiya, and the pleasure-parties of Sultan Masūd on the Hīrmand. Says Gardezī¹:

In the year 418 A.H. (1027-1028 A.D.), Sultan Mahmud assembled his troops for the twelfth time and set his face towards Multan, and, on his arrival, ordered 1400 boats to be built; well-armed with iron-spikes, two on the sides and one on the prow. And the spikes were hard and sharp so that they smashed to pieces whatsoever they struck.

And when these 1400 boats were ordered out on the Indus there were twenty men in each boat, armed with naphtha-grenades and naphtha, and bow and arrow and shield. And the Jats heard of the invasion of the Sultan, and removed their women and belongings to a distant island, and came unencumbered to the fight. And they had 4000, or even, as some say, 8000 boats, heavily laden with men and armour.

Then as both the fleets drew near, the Muslim archers and throwers of naphtha rained arrows and (balls of) fire; and the boats of the Sultan rammed the boats of the Jats and smashed them to pieces and wrecked them. And in this way they continued to fight till the boats of the Jats were either rammed, or wrecked, or scattered.

It is this victory, apparently, to which the poet Farrukhī alludes in his $d\bar{\imath}w\bar{a}n^2$, for the sea-fight off Sōmnāth, and the Muslim pursuit³,

I have seen water-sports like fishing and the shooting of water-fowl, but thou hast shot black tigers in the water this year.

8 Ibnu 'l-Athīr, Tārīkhu 'l-Kāmil (completed in 1230–1231 A.D.), Cairo ed., Vol. IX., p. 119:

And the survivors amongst them took to the sea in boats to make their escape, but the Musalmans overtook them, and some were killed and some were drowned.

¹ Gardezī, Zainu 'l-Akhbār, King's College (Cambridge) Library MS. No. 213, f. 127^b.

² Farrukhī, *Dīwān*, India Office MS. Ethé 902, f. 36*:

blockade¹, or ambuscade², given in non-contemporary works, finds no place in the Zainu 'l- $A\underline{kh}b\bar{u}r$ of Gardezī, composed about the year 440 A.D.:

The (Hindu) notables of Sōmnāth fled to their ships and set sail with their wives and belongings, and came to anchor at an island (in the sea). And there they remained so long as the Muslim army was in Sōmnāth³.

The pleasure-parties of Sultan Mas'ūd are suggestive of Sāsānian times. Says the *Tūrīkh-i-Baihaqī*:

On Monday, the seventh of Şafar, in the year 428 A.H., Sultān Mas'ūd desired to sail and ten boats were accordingly moored to the bank (of the Hīrmand). The royal boat was larger than the others and was rigged and carpeted. And the Sultān embarked with two courtiers, two cup-bearers, one attendant to measure out the wine, and an armed slave.

¹ Mīrkhwand, Rawdatu 's-Ṣafā, Lucknow ed., Vol. IV., p. 741:

بقیة السیف در کشتیها نشسته روی بگریز آوردند سلطان چند کشتی مرتب ساخته مردم در آنجا بنشاند که راه دریا ضبط نهایند

The survivors took ship and prepared for flight, but the Sultan got together a few ships and sent his men ahead to close the sea-route.

² Firi<u>sh</u>ta, *Tārīkh*, Lucknow ed., Vol. I., p. 32:

بقية السيف برهبنان و خدمتگاران سومنات كه قريب چهار هزار ميشدند روي بدرياي عبان آورده بكشتيها سوار شدند و خواستند كه خود را بجزيرهٔ سرانديب كشند اما سلطان قبل از آن فكر اينبعنى كرده چند كشتي پر از بهادران بر سر راه ايشان باز داشته بود – آنها بهجرد نبودار شدن كشتيهاي كفار بر ايشان حمله آوردند و اكثري را غريق بحر فنا گردانيدند

The survivors amongst the Brahmins and stewards of Sömnäth, who amounted nearly to 4000 men, turned towards the sea of 'Uman, and took ship in the hope of escaping to Ceylon. But the Sultan had previously stationed a few ships, manned with his warriors, on the line of flight; and so the infidel fleet was boarded at sight and the majority of the crew exterminated.

³ Gardezī, Zainu 'l-Akhbār, King's College (Cambridge) Library MS. No. 213, f. 126^b:

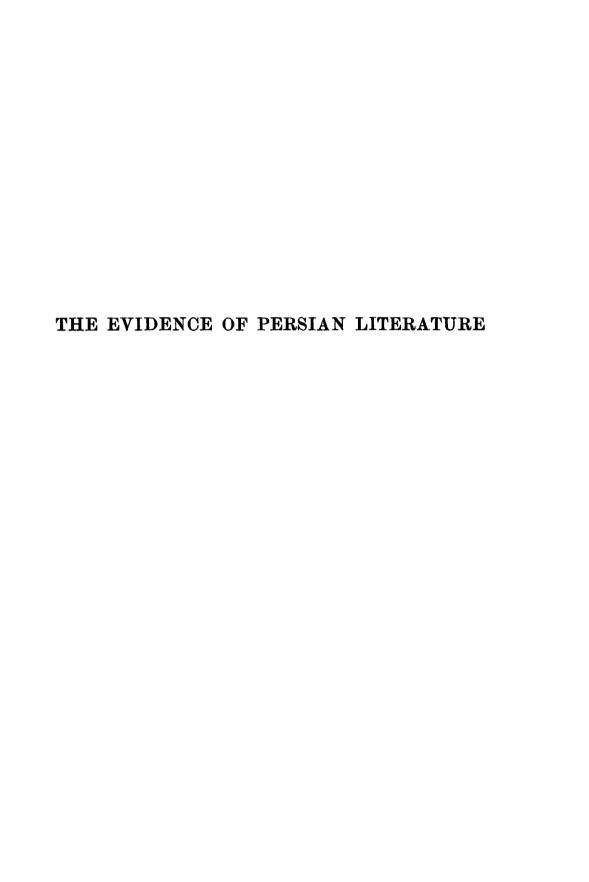
و سالاران شهر از شهر بيردن آمد[ند] و اندر كشتي نشستند بها عيال و بن خويش و اندر دريا شدند و بر جزيره فرود آمد[ند] و هبي بودند تا لشكر اسلام از آن ديار نرفتند ايشان از آن جزيره بيرون نيآمدند

In the other boats were courtiers, ministers, stewards, and all sorts of people, but no one was aware of what was happening, until they discovered all of a sudden that the royal boat was flooded—since the current was strong—and that it was just about to capsize. And so they yelled and screamed and shouted, whilst the Sultān stood up, and since luckily the other boats were near, some seven or eight fellows jumped in and saved the king.

It appears from Baihaqi's description that the boats used were rather primitive; and consequently the question re-arises: How is the retention of primitive boats on the Hirmand reconcilable with, an advanced type of Persian navigation on the high seas, from Suez to the ports of China? I have no doubt that the answer lies in the interconnection between the scarcity of navigable streams and the feeble development of fresh-water navigation, especially when the only navigable river in Persia is the Kārūn, and when the Kārūn is only navigable as far as Ahwāz.

¹ The Tārīkh-i-Baihaqī, Bibl. Ind. Series, Calcutta (1862), pp. 628-629:

تماریخ سنه ثهان و عشرین و اربعهائة ـ روز دوشنبه هفتیر صفر امیر شبگیر بر نشست و گرانهٔ رود هیرمند.....کشتیها بخواست و ناوی ده بیآوردند یکی بزرگتر از جهت نشست او راست کردند و جامها افلندند و شراعی بروی کشیدند و وی آنجا رفت با دو ندیم که شراب پیهاید از شراب داران و دو ساقی و غلامی سلاح دار و ندیمان و مطربان و فراشان و از هر دستی مردم در کشتیها دیگر بودند و کسی را خبر نه ناگاه آن دیدند که چون آب نیرو کرده بود و کشتی پر شده نشستن و دریدن گرفت آن دیدند که غرق خواست شد بانگ و هزاهز و غریو خواست امیر بر خاست و خیر آن بود که کشتیها دیگر بدو نزدیک بودند ایشان در جستند هفت و هشت تن و امیر را بهودند و بهودند و بهودند و بهودند و بهودند و هشت تن



THE EVIDENCE OF PERSIAN LITERATURE

For the literati of Persia, as for the land-loving Arabs of the hinterland, the sea has always been an object of terror. As early as Sāmānid times the physician Abū Bakr Muḥammad b. Zakarīyā ar-Rāzī had declared that it was incompatible with wisdom to risk the passage of the Oxus, and if the account in the *Chahār-Maqūla* be true, the physician had consequently to be conveyed across the Oxus like a live parcel¹. Similarly, in 533 A.H. the poet Anwarī was so terror-struck by the sight of the Oxus which barred his way to the court of 'Imādu 'd-Dīn Pīrūzshāh at Tirmidh that he nearly lost his senses and but for the display of swimming given by the royal guide would undoubtedly have returned². It is not surprising, therefore, that Sa'dī should have advocated safety on land³, or that

¹ <u>Chahār-Maqāla</u> of Nizāmī-i-'Aruḍī-i-Samarqandī, ed. Mīrzā Muḥammad, p. 74:

[محمد بن زکریا الله تعالی و که تُنگو بایدیکر الی التّهاکه خدای تعالی میگوید که کشتی ننشینر قال الله تعالی و که تُنگو بایدیکر الی التّهاکه خدای تعالی میگوید که خویشتن را بدست خویشتن در تهلکه میندازید و نیز همانا که از حکمت نباشد در چنین مهلکه نشستن....خواهش باو در نگرفت دست و های او ببستند و در کشتی نشاندند و بکذرانیدند و آنگه دست و های او باز کردند

² The Kullīyāt of Anwarī, Lucknow ed., p. 357:

چون بجیحون برسیدیم زمن هوش برفت گفت لا حول و لا قوة الا بالله رفت و بر بست ازاری و بجیحون در جست و اندران جست بیکدم بگذشت او بشناه باز باز آمد و گفتا که بدیدی سهل است در نشین خیز و مکن وقت گذشتن بیگاه کشتی آورد و نشستیم درو هر دو بهم چون دو یار او همه یاری ده و من یاری خواه او چو شیری به یکی گوشه گشتی بنشست من سر اندر زن و بیرون زن همچون روباه Cf. the Dīwān-i-Mu'izzī, British Museum MS. Add. 10,588, f. 73*:

من بنده کر ز خدمت یکچند دور بودم باز آمدم بخدمت با شعرها زیبا از ترس راه و گرما از بیم آب جیحون بودم قریب یکهه دلتنگ و ناتوانا Sa'dī, Gulistān:

بدریا در منافع بیشهار است اگر گوی سلامت بر کنار است

'Abdu'r-Razzāq should have fainted when he caught the smell of the boat', or that Ḥāfiz should have abandoned the sea-voyage which was to take him to the court of Maḥmūd Shāh Bahmanī of the Deccan, for

"Surely, surely, slumber is more sweet than toil, the shore Than labour in the deep mid-ocean, wind and wave and oar²."

Consequently, in the post-Muḥammadan poetry of Persia, the sea, like the devil in Scripturc, has never been mentioned for its own sake, and generally has never been mentioned at all. "The poet (Firdawsi)," says Prof. Nöldeke, "and the whole tradition lies behind him, has no experience whatever of the sea—one might even say, travelling by sea. The few passages, in which sea-voyages occur, are vague and incorrect. He allows an army to travel some thousand farsangs, that is to say, hours of march, across the sea in ships and boats. During Kay Khusraw's journey over the great sea, which he finishes in seven months although it ought to last a year, only once does a storm occur. The enumeration of strange sea-monsters is the chief thing in this journey. The Īrānians come back in seven months without encountering a single storm; indeed, two boats come first, and a thousand ships follow. Afrāsiyāb crossed the same sea as a matter of course³."

Firdawsi's account comprises the voyage of Afrasiyab and Kay Khusraw and the tendency has been to concentrate on the latter at the expense of the former. Afrasiyab, therefore, merely comes

¹ The Maţla 'u's-Sa'dain, British Museum MS. Or. 1291, f. 201°:

چون بوی کشتی بهشام این ضعیف رسید و وحشت دریا دید بنوعی بیبوش گردید که تا دو روز غیر از آمد شدِ نفس از هیچ مهر امید حیات نداشت

In the Hakl. Soc. edition the two days' swoon has been extended to three. Supra, p. 141.

² Hāfiz, Dīwān:

دیار یار مردم را مقید میکند لیکن چه جاي پارس کین محنت جهان یکسرنمی ارزد پس آسان مینمود اول غیر دریا ببوي سود غلط گفتیر که یک موجش بصد گوهر نمی ارزد برو گنج قناعت جوي و کنج عافیت بنشین که یکدم تنگدل بودن به بحر و بر نمي ارزد

³ Th. Nöldeke, Grundriss der iranischen Philologie, Vol. 1., p. 177.



KAY KHUSRAW CROSSES THE SLA OF ZIRRI II Trom the Shahnāma, India Other MS 741 f 326.

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and goes; whereas Kay Khusraw builds and manns a fleet, and steers and floats and sails. Nor is the reason far to seek. The poet intended his Shūhnāma to be a monument of Persia's greatness, and an attempt had to be made to show the nautical superiority of Kay Khusraw over Afrāsiyāb. Winds and waves and rocks are to be found everywhere; why should the poet emphasize them in his description? But sea-monsters in shoals are uncommon. They are therefore introduced into the Shāhnāma—not in Afrāsiyāb's account but in Kay Khusraw's—because the fearful sea had been especially created for exhibiting the fearlessness of the Persians who sailed on it.

It is necessary therefore to determine the exact proportion of artistry and ignorance in the composition of the <u>Shāhnāma</u>. Prof. Nöldeke has apparently missed the point altogether. His conclusion is based on three lines of reasoning, firstly, on the length of Kay <u>Khusraw's voyage</u> which was completed in seven months instead of twelve, secondly, on the abnormal tranquillity of the great sea where only once did a storm arise, and thirdly, on the enumeration of strange sea-monsters. None of these arguments is admissible, for the last two are obvious effects of artistry, and the first is not an argument at all, for if the outward voyage was performed in seven months why should the return voyage have taken longer, especially when the winds were assistant?

Nevertheless, the conclusion of Prof. Nöldeke stands though his reasons fall. For observe the account of Rustam's voyage to Hāmāwarān¹. The return route is unspecified and the outward voyage compressed within three couplets; nothing is said about the fleet, not a word mentioned about the crew. If the time-factor determined the choice of the sea-route, why is information about the length of the voyage withheld? Why does Firdawsī, whose claim to greatness rests on the use of detail², avoid detail here? Why does the most loquacious of all the Persians become suddenly mute when the theme changes from land to sea?

¹ Supra, p. 7.

² Shiblī Nu'mānī, Shi'ru 'l-'Ajam, Lucknow ed. of 1335 A.H., Vol. I., pp. 146-149.

And as with Firdaws so also with the other poets of Persia: their hand begins to acquire the nature of the element it paints firm on the firm-set earth it agitates and trembles over the unstable sea. And even a metaphorical sea may produce this effect as in the "Account of the Ducklings hatched by a domesticated Hen," given in the Mathnawi of Jalalu 'd-Din Rūmi:

قصّه بط بچگان که مرغ خانگی پرورد شان

مادر تو آن بط دریا بد است دایه ات خاکی بد و خشکی پرست میل دریا که دل تو اندر است آن طبیعت جانت را از مادر است میل خشکی مرترا زین دایه است دایه را بگذار کو بد رایه است دایه را بکذار در خشك و بران اندر آور بحر معنی چون بطان گر ترا مادر بترساند ز آب تو مترس و سوی دریا ران شتاب تو بطی بر خشك و بر تر زندهٔ نی چو مرغ خانگی پر كندهٔ ما همه مرغابیانیم ای غیلام بحر میداند زبان ما تسام بس سلیمان بحر آمد ما چو طیر در سلیمان تبا ابند داریم سینو با سلیمان پای در دریا بنه تا چو داود آب سازد صد زره

تخم بطی گرچه موغ خانه ات کرد زیر پر چو دایه تربیت

"Although a domestic fowl has fostered you as a nurse, under its feathers, you, O believer, are the egg of a duck.

Your mother was the duck of that sea; your nurse was of the earth and a worshipper of dry land.

The inclination towards the Sea which is in your heart,—that inclination comes to your soul from your mother.

Your inclination towards the dry land is from your nurse; quit the nurse for she is of bad judgment.

Leave your nurse on the dry land and hasten away; enter the Sea of spirituality like the ducks.

If (your) nurse tries to make you fear the Water, do not fear it but hasten quickly into the Sea.

You are a duck and can live on the dry land and in the Water; you are not as the domestic fowl whose wings are clipped.

We are all water-fowl, my son, (and) the Sea knows our voice perfectly.

Thus Solomon is the Sea, and we are birds; and in (this) Solomon do we move to all eternity.

With the help and guidance of Solomon step into the Sea, in order that the water may, like David, make a hundred coats of chain-mail (for you)¹."

There are three main elements in this poem before us—God, the human soul, and the reunion of the human soul with God; and of these, the last is the most important for it is the centre of vision of the entire poem. Jalālu 'd-Dīn opens the theme by projecting his thoughts into a series of images, for the spectator to behold with the testimony of his own eyes. And so the skeleton-thought is clothed with the living tissue of a continued simile: God becomes a sea, the human soul a duck's egg hatched by a hen, and the union of the human soul with God a duckling floating on the bosom of the sea.

Such is the argument in a nutshell and how is it conveyed? The first picture which is cast by Jalālu 'd-Dīn is a vast expanse of water stretching as though it can fill the void—an

"illimitable occan, without bound, Without dimension, where length, breadth, and height, And time and place are lost"

—a fit symbol of the infinite power of the Creator. Jalālu 'd-Dīn's sea is not merely infinite but it fills infinity. And the more it does so, the more does it truly become the sea of spirituality.

The human soul has now to intermingle and be accommodated with this vision of the sea, because it is the union of the human soul with God that the seer has essentially to see and the shower to show. But how can space be found for anything at all in this mass of froth and foam and wave which has already filled all space? And so, as we watch and wait, the vast and mighty ocean begins to shrink and shrivel—visibly, palpably, with bewildering celerity.

¹ The translation is by Prof. C. E. Wilson. "The literal sense is that by your stepping into the sea the water will form rings, which are likened here to coats of chain-mail which will serve as a protection to you. About David's miraculous skill as an armourer it is said in the *Qur'ān* that David was taught by God the art of making coats of mail."

And now the sea has become a lake, a pool, a garden-pond, where a duckling hatched by a domesticated hen is swimming peacefully to the consternation of its foster-mother. The poet's difficulty is conceded: a duck hatched by a hen is perhaps the only appropriate simile for the human soul, itself a component of two opposite elements. But with the poet's difficulty we have nothing to do; for what are we but passive spectators and what do we see but the transformation of an immeasurable ocean into a duckpond which can be measured with a tape?

The source of trouble lies in the impossibility of tearing a picture from its setting or divorcing an image from its associations. If divinity is to be rendered by a sea, that sca must have the dimensions of infinity, and if the human soul is to be rendered by a duckling hatched by a hen, there must be the background of a farmyard with a barbed iron wire around it. Each image blurs the other at once by its size and its associations—for a sea is not merely a vast expanse of water but a vast expanse of water in everlasting motion, and a pond is not merely a miniature sea but a miniature sea devoid of movement—and to visualize the union of the human soul with God, a work which the poet must somehow achieve, it is imperative that the two images should unite. But the images do not unite or interblend; they are superimposed.

When the sca of spirituality, therefore, becomes a duckpond, not merely is size reduced but movement is simultaneously annihilated: action gives place to stillness, surge and foam change to ripple and slime. The displacement indeed is extreme—that of a dynamic picture by a static.

"Step into the Sea," says Jalālu 'd-Dīn, "in order that the water may, like David, make a hundred coats of chain-mail." And "the literal sense," says the commentator, Prof. Wilson, "is that by your stepping into the sea the water will form rings, which are likened here to coats of chain-mail, which will serve as a protection to you." The sea, as it is generally understood, is too full of wave and foam to reveal ring-formation; Jalālu 'd-Dīn's sea, which shows rings by stepping into it, must of necessity be stagnant. And not only

stagnant, but hard and metallic, for is not the water to form a hundred coats of chain-mail? Jalālu 'd-Dīn's sea, therefore, is doubly abnormal, since it has the limits of a duckpond and the rigidity of steel.

Immobility, however, is a feature not only of the poetry of Jalalu 'd-Dīn Rūmī, but also of the English Wordsworth and the French Baudelaire. As remarked by Ruskin, the children of Wordsworth are as rooted flowers¹:

"Beneath an old grey oak, as violets, lie,"

whilst in the beach scene at Calais, so dead is the silence that it might almost be felt:

"It is a beauteous evening, calm and free; The holy time is quiet as a nun Breathless with adoration; the broad sun Is sinking down in its tranquillity; The gentleness of heaven is on the sea."

Similarly, as pointed out by Mr Middleton Murry², "Baudelaire makes solid everything he can. There is a curious example of this in the *Rêve Parisienne*, where the poet dreams of a symbolic landscape:

'Je savourais dans mon tableau L'enivrante monotonie Du métal, du marbre et de l'eau.'

Even at the outset only one-third of his universe—the water—has any chance of moving; within half a dozen lines he has (literally) petrified even that third:

'Et des cataractes pesantes Comme des rideaux de cristal Se suspendaient obéissantes À des murailles de métal.'

The beautiful Dorothea is 'belle et froide comme le bronze';—and his very ideal of Beauty is an absolute immobility:

'Je haïs le mouvement qui déplace les lignes Et jamais je ne pleure et jamais je ne ris.'"

¹ Ruskin, Modern Painters, Vol. II., p. 170.

² J. Middleton Murry, Countries of the Mind, pp. 161-163, London (1922).

With Wordsworth and Baudelaire, however, this immobility is an artistic creation—the former needed a devotional atmosphere to express

"The universal instinct of repose,
The longing for confirmed tranquillity,
Inward and outward; humble, yet sublime:—
The life where hope and memory are as one;
Earth quiet and unchanged; the human soul
Consistent in self-rule; and heaven revealed
To meditation, in that quietness!"

whilst the latter wanted "a house of metal to serve as a symbol of his own oppression by an adamantine and inexorable world....The surface of his vision and the texture of his verse should alike be hard and impenetrable; thus he would render in poetry his sense of the stifling oppressiveness of life. He would meet steel with steel²."

The immobility of Persian verse, on the other hand, is an unconscious production. The Persian poet is not trying to find means to achieve an end, for he is totally unaware of what he is doing—so much so that he even fails to impart movement where movement is needed. The result is Jalālu 'd-Dīn's aqueous coat of chain-mail, or the caravan-avenue of Qā'ānī:

The fruit-bearing trees are like burden-bearing camels—stretched out one behind the other in a hundred rows.

Their camel-string is the north wind, their camel-saddle the clouds; their camel-straps are the roots, and the camel-colts their branches,

or the ferric leathery sea of Asadī:

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بایرانیان داد کشتی دو شصت بدو کشتی او با سپه بر نشست ز کشتی شد آن آب ژرف از نباد چو دشتی پر از کوه تازان بباد تو گفتی که کیهخت هامون نیل بجهله بدرد همی ژنده پیل
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¹ W. Wordsworth, Excursion, Bk. III.

² J. Middleton Murry, Countries of the Mind, pp. 161-163, London (1922).

یکی دشت هامونش سیماب رنگ سراسر چو پولاد بزدوده زنگ زمینی نماینده همچون سهبر در او چون در آئینه دیدار چهر بیابان آشفته بی سنگ و خاك مغاكش کهی كوه و که كه مغاك یکی دشت سیمین چو آتش بجوش که آسوده از نعره که با خروش بدیدن چان كآبگینه ز رنگ بسودن چو كوبنده بر سنگ سنگ

He gave the Īrānians a hundred and twenty boats and he embarked thereon with his troops.

Because of the boats, the deep sea became as it were a plain full of mountains rolling in the wind.

Thou wouldst say that a wild elephant is tearing to pieces the leather of the blue lake.

It was a hāmūn-plain of the colour of quicksilver, altogether like steel with the rust all polished.

The floor resembled the sky in colour, and therein was reflected, as in a mirror, the face of the seer.

A wild desert without sand or stone, with valleys for hills and hills for valleys. One silver plain, raging like fire; sometimes quiet and sometimes sonorous. In appearance and colour like glass, and like pulverized stones in commotion.

This failure to impart movement can be detected even in the conventional simile سرقد, cypress-stature, but it is undoubtedly at its best in marine themes, and is associated with the perennial cry: Profit is at sea, but safety is ashore. The ferric sea of Asadī, therefore, has no genetic connection of any kind with the petrified water of Baudelaire: the latter has been created by an artistic suppression of movement, whilst the former is, as it were, self-existent, being the reflex-effect of maritime passivity on literature.

It occurred to me, therefore, that even as a seafaring race has called a camel 'a ship of the desert' I should find somewhere in Persian literature the quaint description of a ship as a camel of the sea. And the thing was there—in the *Tuhfatu 'l-'Irāqain* of Khāqānī¹—not identically, but approximately.

¹ Lucknow ed., pp. 87–88. Similarly, 'Abdu'r-Razzāq (British Museum MS. Or. 1291, f. 203^b) calls a ship مرکبی که در آب بسینه جولان نهاید.

در صفت زورق که بر روي دجله روانست

زورق ز برش روان و ساکن چون صورت رهروان باطن چون کنگره سحاب آبان بر کوههٔ آسهان شتابان چون قوس قزح خهیده کردار اما نه بشکل او نگونسار چون ناقه صالح از بن و سر ثعبان کلیر زیرش اندر هر بار که حامله بر آید صد بچه بیك شکیر بزاید زین سر بخورد هر جانور پس قی کند آن ههه بدان سر

About a (ferry-) boat in motion on the Tigris.

On the Tigris a boat is at rest and in motion, like the aspect of travellers journeying within themselves.

Like the pinnacle of the cloud of Ābān, hurrying on towards the height of heaven.

Bent like the rainbow, but not inverted like it.

Like the she-camel of Salih from head to foot²; and underneath there is the serpent of Moscs³.

Every time she is pregnant she gives birth to a hundred offspring from a single womb.

She swallows every living thing at this end, and brings it all out at the other.

Similarly, the poet Asadī calls a ship 'an elephant driven by the wind on a field of water.'

تو گفتی که کیمخت هامون نیل بجمله بدرد همی ژنده پیل چو پیلی بمیدان تگ زودتاب ورا پیلبان باد و میدانش آب

Thou would'st say that a wild elephant is tearing to pieces the leather of the blue plain.

Like an clephant on a race-course, swift of speed; its elephant-driver is the wind, and its race-course is water.

¹ i.e., mystics in deep meditation and with perfect facial rcpose.

² Ṣāliḥ, the prophet sent to the people of <u>Thamūd</u>, produced miraculously from a stone a she-camel in the tenth month of pregnancy, and added a warning that the destruction of the camel or her young would be attended by the destruction of the tribe. The ferry-boat on the Tigris is from head to foot, *i.e.*, stem to stern, like this she-camel of Ṣāliḥ, because it carries passengers and saves them from destruction.

3 The serpent of Moses is the boisterous sea, which engulfs victims.

With the elephants and earnels of the sea—the armed and unarmed shipping of Persian verse—there should also be mentioned the sea-elephants and the sea-eamels of Persian prose—a popular device to convert land-animals to marine by prefixing the word 'sea' or 'water.' Thus there is a sea-dog ڪلاب البحر and a waterin al-Biruni's Chronology of the Ancient Nations, whilst Naṣiru 'd-Dīn Shāh has sea-foxes روباه بحري, sea-lions شير بحري, sea-elephants فيل بحري, water-horses اسپ آبی, and even waterrhinoceroses کرکدن آبی in his Safarnāma. That a walrus or a hippopotamus should be a sea-elephant or a water-rhinoceros is perhaps intelligible, but when a lighthouse becomes a sea-lamp and the word ship سارقة الهاء, and a pirate a water-thief جراغ بحري, and thence to کشتی بزرگ جنگی and thence to کشتی بزرگ عشتی بزرگ عشتی بزرگ عشتی بزرگ عشتی it is time to question the existence, نامَن پوش it is time to of a nautical vocabulary in Persian literature. For place in parallel eolumns an account of a land-journey of Nāṣiru 'd-Dīn Shāh, and an account of his sea-voyage, and replace the word 'ship' by 'carriage' and forthwith the sea-voyage is a land-journey. to a سفر; 'is eommon to both 'eabin' and 'eompartment اطاق 'voyage' and a 'journey'; داخل شدن to 'enter' and to 'embark'; to a 'baggage' and 'eargo'; راندن to 'set sail' and to 'drive' and so on. It is unnecessary to pursue the subject any further: the evidence of Persian literature is as completely against a theory of Persian maritime activity as the evidence of history is in favour.

Obviously, therefore, a hard and fast line has to be drawn between the coastal Persian and the Persian of the Persian plateau; the former, like the Sabaean Arab, was a sailor; the latter, like the Beduin, a lover of land. This has led Sir John Malcolm to suppose that the coastal Persian was not a Persian at all but an Arab, for says he¹:

"The fourth class of the inhabitants of Persia consisted of a number of Arabian tribes, who entirely occupied the level country between the mountains and the Persian Gulf. This tract, which...resembles the peninsula of Arabia more than any of the interior provinces of Persia, had long been abandoned to this race,

¹ J. Malcolm, History of Persia, Vol. II., p. 63.

who from the earliest ages possessed a superiority over the Persians at sea. The latter indeed seem, at all periods of their history, to have at once dreaded and abhorred that element. The Arabs had consequently not only possessed themselves of the islands in the Gulf, but of almost all the harbours along the coast. Their children maintained these possessions, yielding at times a real, and at others a nominal obedience to the government of Persia; but their poverty, the heat of the climate, and the barrenness of the soil, combined with the facilities of embarking in their boats, have at all periods aided the efforts of this race to maintain themselves in a state of rude independence."

As applied to pre-Ṣafawī times all this is sheer speculation, for apart from the frequent navigation of Darius in the Gulf of Persia, and the naval activity of Ardashīr-i-Pāpakān and Shāpūr the Great, were not the provinces of 'Umān and Yemen under Persian control before the rise of Islām, and is there not the evidence of Muqaddasī that "most of the shipbuilders and seafaring men along the circuit of the Arabian peninsula are Persians¹"? Nevertheless, though there were Persian sailors along the Gulf, and Persian landsmen in the interior, it appears to me that the difference between the landsman and the sailor was merely of degree, not of kind. For what the sea is to the one, the circumambient sea is to the other, and what Mas'ūdī writes in 965 AD.:

Sofāla is the limit of navigation of the vessels of Umān and Sīrāf in the Sea of the Zanj 2

is repeated almost verbatim by Duarte Barbosa in A.D. 1514:

"Neither have the Moors of Arabia, and Persia, or the Indies, ever navigated as far as this (Cape San Sebastian), nor discovered these countries, on account of the strong currents of the sea, which is very stormy."

The dread of the circumambient ocean had not been removed by the establishment of a sea-trade from Africa to China, and the Sea of the Zanj was, for the Arabs and the Persians alike, the butt and very sea-mark of their utmost sail.

¹ Supra, p. 125.

² Supra, p. 125.

'Abbādān 110, 128, 125 'Abbās b. Māhān 126 'Abbāsids 97 Abdera 17 'Abdn'llah b. Zaid 77 'Abdu'l-Qais 64, 76 'Abdu'l-Wahid 126 'Abdu'r-Razzāq 141-142, 153. 161 Abraha 74 Abu 'Abdu'llah Muhammad 126 Abū 'Amr ibnn 'l-'Ala' 80 Abū'l-Fidā 77, 100, 126 Abū'l-Ḥasan 'Alī 126 Abu Muhammad al-Hasan 126 Abū 'Ubaid 80 Abū Zaid 77 Abū Zaid (of Sirāf) 79, 105, 106, 109, 118 Abn'z-Zahr al-Barkhati 126 Abydos 26 Abyssinia 71, 125 Abyssinians 71, 72, 74, 127, 145 Acanthus 28 Acar 143 Achaemenes 28, 33 Achaemenian sea-power 17, 23 Achaemenians 17-42, 87 Achëh 101 Accnite 83 Acre 38 Aden 5, 46, 73, 124, 126, 127, 137, 143 Admirals (Persian) 23, 24, 27, 28, 30, 31, 33, 37-40, 72, 74 Adnlis 49, 66, 68 Aegean Sea 87 Aegilia 26 Aegospotami 85 Acolians 24 Aeolian ships see Ships (Aeolian) Aeschylus 27, 29 Afrāsiyāb 8, 11-12, 154-155 Africa (see also East Africa) 23, 82, 48-50, 164 African ships see Ships (African) Agatharchides 45, 47 Agesilane 86, 38 Aghill 53 Agis 41 Ahrīman 59 Ahsanu 't-Tagasim fi Ma'rifati 'l-Agalim 111-112, 128-125 Ahūra Mazda 59-60 Ahwaz 150 'Aja'ibu'l-Hind 126

Ajanta 88-89 Ajanta ships see Ships (Ajanta) Akam 52 'Ala' 95 Alabandennm 70 Alburz 8 Alcibiades 35 Alexander, the Great 20-21, 40-41, 129-130 Alexandria 59, 143 'Ali b. Bashat 133 'Alī b. Dā'nd 133 'Alī b. Hasan b. 'Alī 133, 137 'Alīgarh xiii, 129 Allāh 96, 104 Almonds 144 Almūlī tribe 133 Alnūshjān see Nūshjān Aloes 68, 81, 127 Alces-wood 143 Alum 81 Amber 83 Ambergris 127 Amen-Rä 18 Amethysts 143 Aminias 30 Aminocles 28 Ammon 23 'Amr 95, 111 Amyrtaeus I 33-34 Amyrtaeus II 35 Anabasis 20, 85 Anchor 28, 90 Anchor-cables 90 Ancient Accounts of India and China 106 Ancient Ships 90, 92 Andaman islands 78 Andlura 53 Androstacliys 68 Angam, island 140 Anguox 187 An-hsi 63 Anischow 54 Annals (Hamza) 7, 61, 64-66, 72-73, 75, 118 Annals (Tabari) 64-66, 72, 76, 88 An-si 103 Antalcidas, peace of 37, 39 Anticch 85 Antiochia Margiana see Marv Anticchus IV 51-52 Antissa 40 Antonins, Marcus Aurelius 54 An-tun 54

Anwari 158 Apologus 50 Apostana 21 Apples 144 Apricots 144 Arabia 18, 46, 48-52, 71, 74, 78, 81, 83, 96, 128, 125, 148, 164 Arabian compass 83-84 Arabian gulf 18 Arabian mosques 135 Arabian Sea 72-74, 77, 188 Arabian ships see Ships (Arabian) 'Arabistan 51 Arabins, the 50 Arab sailors 46-50, 77-79, 84, 92, 96, 101, 105, 115, 118, 128, 128, 138, 163 Arabs 7, 46-48, 50, 52, 62-65, 74-78, 80, 85, 96-97, 104, 127-128, 181, 188-189, 158, 163 Aradus 41 Ardashīr-ī-Pāpakān 59-68, 112-114, 164 Ardashir Khurra 61, 64 Argos 36 Ariabignes 28, 30, 72 Ariaca 49 Ariamenes see Ariabignes Ariaramnes 24 Aristagoras 24 Aristazanes 40 Aristides 30-31 Armenia 59 Arrian 21-22, 40-41, 50 Arsacids see Parthians Artabazus 83 Artachaeus 27 Artaeus 27 Artakhshir Gādmān 62 Artaphernes 25 Artaxerxes I 33-84 Artaxerxes Mnemon 36-37, 89 Artaxerxes Ochus 39 Artaxerxes (of Persis) 51 Artemisia 80 Artemisium 28-29 Aryans 60 Asadī 3, 18, 160–162 Asia 22, 83, 87, 99 Asia Miner 17, 24, 26, 31, 34, 86, 88 Asich 51 Asmiraea 54 Aspathines 28

Aspendus 35 Assyrian ships see Ships (Assyrian) Astronomy 85, 111 Atash-i-Wahrām see Fire-temples Āthāru 'l-Bilād wa Akhbāru 'l-Ibād 189 Athenians 25-26 Athenian ships see Ships (Athen-Athens 25, 28-30, 33-35, 37-38 Athos 25, 27-28, 32 Atlantic Ocean 32, 46 Atra 50 Attica 25, 33 Augustus, Emperor 48, 75 Autophradates 41 Autophradates (of Persis) 52 Avalites 49 Avan 60-61 Avars 87 Awls 49 Ayaz, of Hurmuz 139 Azania (see also East Africa) 49. 125, 134-135 al-'Azīz Bi'llāh 126 'Azizi 126

Bābshū 105 Babylon 19-20, 26, 63, 113 Babylonia 20, 143 Babylonians 19-20 Bacare 114 Bacher 130 Bactra 54-55 Badger, G. P. 74, 138 Bādhān 74-75 Badis 21 Bagaios 40 Baghbur (or Baghpur) 77-78 Baghdad 20 Bahman 73 Bahman Ardashir (or Bahmanshir) 61-62 Bahrain 46, 61-62, 64, 76-77. 95, 106, 113, 148 Bahrām Gür 68, 65 Bahū 3 Baichu see Babshū Baihaqi 149-150 Bakr b. Wa'il 64, 76 al-Baladhuri 76-77, 107 Balms 48 Balsam 47, 143 Balüchistän 5, 12 Bamian 55 Bandā 78, 146 Bandan 146 Banū 'l-Ahrar 75 Baqqam 127 Bar 117

Bar'ānī 131 Barbaricum (see also Karachi) 52, 55, 114 Barbary see Berber Barbosa, Duarte 137-138, 143-146, 164 Barchin 6 Barkah 131 Barley 114 Barros, João de 145-146 Bārūs 101, 116 Barygaza (Broach) 49-50, 52. 54-55, 114 Bashat b. 'Ali 133 Basisi (Basisiq) 100 Basra 62, 95, 106, 111, 115 Batak 116 Batn Ardashir 61-62, 113 Baudelaire 159-161 Bay of Bengal 101, 116 Bayley, E. C. 147 Bdellium 50 Beal, S. 65, 102 Beduins see Arabs Beeswax 137, 143 Bel 19 Belisarius 68 Bengal 145 Bengala 143, 145-146 Bengalis 146 Benzoin 148 Berber (Berbera) 5-6, 134 Berenice 48-49 Bhatiya 148 Bhoga 98 Bhoga, the 98 Bibl. Geog. Arab. 117 Bih Ardashīr 61-62 Bih-az-Andiv Khusraw 63 Bijāpūr 146 Birajah 131 Birajah 131 Biroh, Walter de Gray 147 Birds see Shore-sighting birds al-Birūnī 168 Bit Ardashir 62 Bithynians 86 Black Sea 66, 85-87 Blackwood 50 Blair 47 Boar Hunt 91-92 Boatmen 27 Boats (Arabian) 91 Boats (Assyrian) 91-92 Boats (of the Jats) 148 Boats (Persian) 91, 148-150 Bocotia 31 Boges 32 Bokht Artakhshir 60, 62 Bombay 66, 69 Rook of the Road see Rahnāma Borneo 99, 146 Boroboedor 90

Bosphorus 12, 24, 87 Brāhmaṇa 99 Brahmans 101–102 Brahmaputra, the 145 Brava 132 Brazil-wood 143 Bretschneider, E. 99-100 Bridge of boats 24 Bridge (of the Hellespont) 26. 80-81 Brizana 22 Broach see Barygaza Brocade 127, 148 Broct island 139 Brouwer's islands 111 Browne, E. G. 72-75, 180, 141 Brygi 25 Bubares 27 Bubastis 18 Büd Ardashir 61 Buddha 90, 104 Buddhist Records of the Western World 65 Budge, E. A. Wallis 18-19 Bundahishn 61 Bundehesh 61 Burākīyah 131 Burgess, J. 88-89 Burma 99, 102 Burmah 131 Burton 135-136 Büshahr 62, 112-113 Busī 79-80 Butes see Boges Butter 49 Būzī 79-80 Byblus 41 Byzantines see Romans Byzantium 85-87, 95

Caber 70 Caenae 20 Caesarea 68 Cairo 143 Caïsus 69 Calami 31 Caldwell, Bishop 116 Calicut 70, 142, 144, 146 Caliphate, its Rise, Decline, and Fall 96 Calliana 66, 68-69, 114 Callias, peace of 34 Camara 52-53, 142 Cambay 49, 107, 137, 143-147 Cambodia (Camboja) 79,81,112, 117 Cambyses 18-19, 23 Camelots 148 Camels 103, 160-163 Camphor 81, 110, 126 Cana 49 Canals 18-20, 22, 27-28, 113, 124

Canes 127 Cane-sugar 126 Canoes 87 Canton 82, 97-102, 104-106, 109-110, 117-120 Cape route discovered 106 Cappadocia 24 Cappadocians 86 Caria 89 Carians 24 Carian ships see Ships (Carian) Carinda 22 Carmande 20 Carmania 21, 48, 51 Carnelians 83 Carthage 23 Carystus 25 Caspian Sea xiii, 8, 12 Cassis 47 Casthanaea 28 Castor 68 Cataea 21 Catalogue of Greek Coins 51 Catavaeca 61 Cathay 69, 143 Cathay and the Way Thither 69-71, 79, 98-99, 115, 117 Catheads 90 Cattle 104 Caucasus mts. 85 Cement 76, 134 Cen lei pen ts'ao 81 Central Asia 80 Ceylon xii, 3-4, 13, 49, 53, 65-68, 70, 77-78, 81-82, 85, 98, 108-104, 114, 116-117, 119, 145, 149 Ceylon 66-67 Chabrias 38 Chahār-Maqāla 153 Chalcedon 87 Chaldaeans 19 Chandra 89 Ch'ang-an 97 Chank shells 70 Chao Ju-kua 100 Charax Spasini 50 Chau Ju-kua 54, 78, 82, 104, 109-112, 134 Chaul 69, 143 Chautars 143 Che-li-fo-che see Fo-che Chenwal see Chaul Chera 58 Cherala 52 Chi 97, 109 C'hieng 52 Chilappathikaram 58-54 China (Chin) 9, 11-12, 50, 54, 68-71, 77-78,81,88-85,96-99, 102-106, 109-110, 112, 115-118, 124, 126-127, 129, 148, 150, 164

China and the Roman Orient Chin dynasty 80 Chinese 79, 81, 100, 102, 105, Chinese ships see Ships (Chinese) Chinese ware 127, 186, 143 Chinesisch-Arabische Glossen 117 Choerea 26 Chola kings 58 Cholmender see Coromandel Chöng Fn-li 109 Christians 66, 68, 71, 76, 105 Christian Topography 66-68,70, Chronicle of the Kings of Ormuz 140 Chronology of the Ancient Nations 163 Chrysolites 143 Chwaka 135 Cicandrus 21 Cilicia 25, 34, 87 Cilician ships sec Ships (Cilician) Cimon 31-34 Cinnabar 83, 114 Cinnamon 47, 78, 143 Circumambient sea see Sea (Circumambient) Circumnavigation of Africa by Phoenicians 22 Circumnavigation of Africa by Sataspes 32-33 Citium 34 Clazomenae 37 Cloth 50, 68, 83, 116-117, 127, 184 Cloves 68, 70, 143 Cnidus 36-37, 39 Cocoanuts 78, 116, 127, 143 Coinage of Lydia and Persia Coins of the Andhra Dynasty 53 Colchis 85 Colombo 146 Colonists (Abyssinian) 145 Colonists (Arabian) 101, 126, 137, 143-147 [']101, 104, Colonists (Dravidian) 126 Colonists (Gujarāti) 146 Colonists (Persian) 66, 74-77, 98, 100-101, 124-126, 182-188, 148-147 Colonists (Turkish) 144 Commentaries of the great Afonso Dalboquerque 147 Commerce and Navigation of the Ancients in the Indian Ocean xi, 21, 47, 75, 85 Compass (Arabian) 88-84, 111 Compass (Persian) 88 Conon 36-37

Constantinople (see also Byzantium) xii, 67, 70 Copper 56, 68, 110, 114 Corals 56, 88 Corinth 36 3, 52-53, 117. Coromandel 145 Cosmas, Indicopleustes 65-68, 70, 104, 114 Cotton 76, 104, 185, 145 Cotton-caps 145 Cotton-cloth 49, 103, 143 Countries of the Mind 159-160 Cranganore 52 Crotona 24 Ctesias 24 Ctesiphon 63, 73 Cumdan 105 Cnnaxa 36 Curzon, G. xi, 5, 113 Customs' duty 58, 110, 147 Cyanean isles 24, 84 Cyclade isles 41 Cyprians 40 Cyprian ships see Ships (Cyprian) Cyprus 23-24, 32-34, 37, 39. Cyrus, the Great 19 Cyrus, the Younger 35-36 Cyzicus 39 Da Asia 146

Dabul see Daibul Dādūya 75 Dahliäk 3, 59 Daibul 65, 114, 143 Dalboquerque, Afonso 147 Damasks 83 Dams 19-21 Dārbazīn 126 Dardanelles 12 Darius Codomannus 41 Darius, the Great 18-20, 22-26, 28, 164 Darins Nothns 34 Darius (of Persis) 51 Dār Şini 78 Dastagird 62 Dates 50, 83 Datis 25-26 Dā'ūd b. 'Alī 183 David 157-158 De Bello Gothico 71 De Bello Persico 61, 68-69, 86, 114 Deccan 55, 89, 144, 153 Deccleans 30 Delaporte 79 Delhi 144 Delos 25 Democedes 24

Description of the coasts of East Africa and Malabar 187-188. 143-145 Dewing, H. B. 61, 69, 86 Dhū'l-Adh'ar 6-7 Dhū'l-Aktāf see Shāpur II Dhū'l-Manār 6-7 Dhū Nuwās 71 Dhū Yazan 71-78 Diamonds 83 Dibajāt 78 Diodorus Siculus 20, 33-35, 38, Diolous 27 Diosooris, isle of see Socotra Discovery of the monsoon 48
Display of two forraigne seets in the East Indies 108 Diu see Div Dinl-Sind (see also Daibul) 68 Div 107 Diwan-i-Farrukhi 148 Diwān-i-Ḥāfiz 154 Diwān-i-Mu'izzī 153 Dizabnins 70 Dodwell 47 Donkeys 103 Dorian ships see Ships (Dorian) Dorisous 27-28, 31-32 Dorothea 159 Dravidian sailors xii, 46, 48, Drugs 82, 127, 148 Duarte Barbosa see Barbosa, Duarte Dngasas 143 Duhmi Ardashīr 62 Dujail, the 61, 123 Dulaurier 3, 117 Dūnīj 131 Durdawr 12, 116 Duty see Customs' duty Dwarka 112 Dvkes 82

Early Commerce of Babylon with India 20

Early History of India 89

Early Zoroastrianism 60

Earthenware 127

East Africa (see also Azania) 76, 78-79, 81-82, 84, 103, 125-126, 132-138

East India Company 108

Egypt 5, 18, 20, 22-23, 26, 38-36, 38-41, 46, 48, 76, 86-87, 112, 124, 126

Egyptians 20, 26, 33, 38

Eion 32

Elam 46, 53

Elanitiok gulf 4

Elephants 91, 161-163

Firuz 75

Fīrūz (Marzubān) 77

Firūzābād 61-62, 113

27, 29, 39, 91-92

Flnegel, G. 126

Frangrasyan 61

Fragments 70

Five Great Monarchies 17, 22,

Fo-che (see also Palembang) 98

Emeralds 148 Encyclopaedia Britannica 22, 89, 50-51, 187 Encyclopaedia of Islam 3, 21,62, 70, 81, 95-96, 118, 117 Engineers (Egyptian) 26 Engineers (Persian) 27 Engineers (Phoenician) 26 Ephesus 36 Epibetae 23 Eranische Alterthumskunde 115 Eretria 25-26 Eretrian ships see Ships (Eretrian) Erissa 41 Ernkkadnr Thayankannanar 52 Erythraean Sea see Red Sea Erythras 45 Esimiphaeus 69 Eski Baghdad 62 Eski Mosul 21 Ethiopia 23, 40, 48-49 Ethiopians 69, 75 Euboea 28, 41 Ennnchs 127, 145 Euphrates, the 19-21, 50, 55, 59, 79, 91 Euripos 28-29 Eurybiades 29 Enrymedon 31 Evagoras 37 Excursion 160 Eye (of ships) 90 Fa-hian 65, 116 Fan captains 110 Fan Co 99 Farghāna 115 Farrukhi 148 Fārs see Pārs Fasā 126 Fātimids xiv, 126 Feng Hsiao-ch'üan 97 Fergusson 65 Ferrand, G. xii, 77-79, 81, 83-85, 98, 104, 116-117, 127-128, **180** Figs 144 Firdawsī 3, 5-6, 8, 12-13, 154-Fire-temples 60 Firishta 149

Fresh-water navigation 91-92, 147-149 Fn-lin 103-104 Futūhi 'l-buldān see Kitābu futahi 'l-buldan Gāh 83-84 Gaios 38-39 Galangal 88 Galatians 86 Galle see Kalah Galleys 35, 38-40, 87 Gall nuts 83 Gallns, Aelins 48 Gangai 54 Gang-dizh 8, 11, 13 Ganges 52 Ganges, the 52-54, 89 Gangnly, M. M. 52 Ganja 129 Gardezi 148-149 Garshasp 3-4, 18 Garnhaspnāma 3-4, 18 Gaumata 19 Gedrosia 50 Géographie d'Aboulféda 67, 126 Gerini, G. E. 81, 100-101, 112 Germanio races 60 Gerrha 19 Gerrhaeans 47 Gesehichte der Religion in Altertum 60 Ghālī (Galle) see Kalah Giagonzas 143 Gibbon 67 Gilan 115 Gildemeister 8, 117 Giles, H. A. 116, 119 Ginger 148 Giv 11 Glaser 78 Glass 49, 83, 127 Gos 147 Gobryas 28 Goeje, M. J. de 64-66, 72, 76-77, 88, 107, 124-125, 181 Gogana 22 Gold 47, 50, 52-58, 71-72, 81, 83, 86, 99, 108, 114, 137-138 Gottwaldt 7, 64-66, 72-78, 75, 118 Gonbazes 86 Granis 22 Grapes 144 Grecian ships see Ships (Grecian) Greece 24, 26, 29-80, 33, 89, 41, Greeks 27-29, 81, 83, 85-86, 88,

40, 46, 54, 60, 69, 187

Frankincense 47, 88, 110

Grundriss der tranischen Philologie 12, 52, 62, 154
Gnjarät 69, 107-108, 114
Gnjarätis 146
Gnjarätis in see Ships (Gnjaräti)
Gnlf-stream 97, 109
Gulistän 158
Gunwale 90
Gurjjaras 112
Gnghtäsp 59
Gngarän 62

Hadramawt 46, 50, 72-73, 128-Häfig 154 Hainan 98, 100, 102 Hajar 64, 77, 125 Hājī Khalifa 126 Hamamah 131 Hamawaran 5, 7, 155 Hamdu 106 Hamdu 'llah Mustawfi see Mustawfi, Ḥamdn 'llāh Ḥamza (of Isfahān) 7, 61-66, 68, 72-78, 75, 118 Han (see also China) 104 Hanbū Shābūr 63 Handwerk und Industrie in Ostafrika 186 Hang-chon-fu 117 Harmozia 21 Hargand 116 Harsha 89 Hartmann, M. 70, 80-81, 95-96, 117-128 Harzādān Shahr 75 al-Hasan (of Sirāf) see Abū Zaid (of Sirat) Hasan b. Ahmad see Muhallabī Hasan b. 'Ali 132 Hatchets 49 Hattia island 145 Hawse-holes 90 Hazarmaveth 46 Head, B. V. 89 Hei-nan see Hainan Hellenica 85-86 Hellespont 25-26, 30, 32, 40 Hellespontines 24 Hellespontine ships see Ships (Hellespontine) Hellesthaios 69 Heraclins, Emperor 87 Herodotns 17-20, 22-29, 31-32, Hess, J. J. 83 Hldalcão 147 Hieratis 22 Higré 21 Hijās 123, 188 Hill, G. F. 51

Himyar 18, 68, 75 Himyarites 6-8, 68, 71, 76-77, 97, 104, 115 Hindn sailors see Dravidian sailors Hindn ships see Ships (Dravidian) Hinzawan 132 Hippalus 48 Hippias 26 Hippopotamns 163 Hira (Hirah) 63 Hirmand, the 148-149 Hirth, F. xiii, 54, 63, 78, 81-82, 100, 103-104, 109-112, 134 Histoire des Rois des Perses 7, 67, 78 Historical Library 20, 33-35, 38, 41 History of Alexander's Expedition 21, 40-41 History of Egypt 18-19 History of Fine Art in India and Ceylon 89 History of the Parsis 60 History of Persia (Malcolm) xi, 163-164 History of Persia (Sykes) xi, 19 History of Persian Literature under Tartar Dominion 141 History of the Tang 99, 102 Hiuen-Ta 102 Hobson-Jobson 116 Hodivala, S. H. 107 Högknè 21 Holland, P. 53, 71 Homeritae see Himyarites Homerite country (see also Himyar and Sabaea) 68 Honey 49 Hormisdas II 64 Hormnz see Hurmuz Horn of Africa 49, 76 Horses 53, 103, 141-148 Ships Horse-transports see. (horse-transports) Hsien-hêng 97 Hsi-Tsung 106 Huan, Emperor 54 Hui-oh'an see Hwi Cao Hui-ch'au-wang-wu-t'ién-chukuo-chuan 103 Hui-ho 80 Hūjistān Wājār 61-62 Hnrmshir 61 Hurmnz (name of man) 75 Hurmuz, island 21, 62, 115, 138, 140-144, 146-147 Hurmnz, town 62, 106-107, 112, 114, 138 Hnrmuz Ardashir 61 Hūya Sunbā see Shapur II

Hwi Cao 102-104, 109 Hyacinths 148 Hyela 17 Hystaspes 26

Ibn Batūta 117 Ibn Kāwān 116 Ibn Khaldun 84 Ibn Khurdadhbih 77, 117, 119 Ibn Mājid 127 1bn Sidah 80 Ibnu 'l-Athir 148 1bnu 'l-Mujāwir 127-128 Idrieus 89 Ifriqis 7 Ilas 21 'Imādu 'd-Din Pīrūzshāh 158 Imams and Seyyids of 'Oman 74, Imbros 24 Imeritia 85 Inaros 33 Incense 46, 48-49 Incense-land 49 India xii, 3, 49-50, 52-55, 63, 65, 67, 69, 73, 76, 78, 81–83, 104, 106, 108, 114–117, 129, 141–143, 145, 147 India in the Fifteenth Century xi-xii, 141-142 Indian commodities 49 Indian embassy 88 Indian History 21-22, 41, 50 Indian Ocean (see also Sea (Sonthern)) 12, 22, 48, 55, 65, 68, 73, 75, 85, 90, 92, 126
Indians 22, 126, 145 Indian ships see Ships (Dravidian) and Ships (Gujarāti) Indigo 83, 114 Indo-China 78, 81-82 Indus, the 12, 52, 55, 59, 65, 67-68, 114, 146 Inshā Ardashīr 61-62 Ionia 24, 25, 81 Ionians 60 lonian ships see Ships (lonian) Ionic revolt 24-25 Iphicrates 38-39 Irānians see Persians 'Iraq (see also Mesopotamia) 6, 95, 115, 128-124 'lrdās 131 Iron 114, 127, 148 Isfandiyār 78 Isidore 51 Iskandar-nāma 129–180 Islam 50, 74, 80, 95-96, 107, 128, 164 Ispnruz 8 Issus 41, 87

Istakhrī 115

INDEX

Ister 24 I-tsing 97-98, 100-102, 109, 118. 120 Ivory 48-49, 100, 110, 127, 137 Jabaliyah 131 Jalālu 'd-Dīn Rūmī 159-160 Jamshid 8 Januba district 50 Japan 101 Jask 108 Jāsūs 181 Jats 112, 148 Java 99, 117, 125, 146 Javanese 146 Jawāliqī 80 Jawhari 79 Jaxartes see Oxus Jerab 46 Jerusalem 3 Jewels see Precious stones Jews 76, 105 Jibāl 6 Jiddah 124, 126 Joktan see Qahtan Journal, American Oriental Society 108-104 Journal Asiatique 83-85, 127-128 Journal, Royal Asiatic Society 20, 46, 48, 59, 65, 72-73, 75, 100, 132-133 Julfar 143 Julianus 69 Jundai Shāpur 62 Junks see Ships (Chinese) Jupiter 52 Jushaish 77 Justi, F. 52, 61-62 Justinian, Emperor 68-69 Jūz buwā 78 Jūz-i-Banda 78

Kābul 55, 67 K'ai-yüan 103 Kalah 3, 100, 106, 117, 125-126 Kalahat 142 Kalah-bar 117 Kalakam 53 Kālidāsa 52 Kalyan (see also Calliana) 66 Kanakasabhai V. 52-54 Kanawj 65 Kanchow 54 Kan shin see Kien-chen Karachi 52, 55 Karaka, D. F. 60 Karawaniyah 131 Karkh Maisan 61-62

Jūzu'l-Hind 78

Kārnāma 60, 62, 118 Kārūn, the 21, 62, 128, 150 Kash fu'z-Zunun 126 Kashgar (Kāshghar) 54 Kashmir 67 Kathiawar 107 Kaviri, the 58, 70 Kaviripaddinam 53, 142 Kāwa 13, 59 Kayānians 4, 59, 61 Kay Kā'ūs 4, 6-8, 18 Kay <u>Kh</u>usraw 8-9, 11-13, 154-155 Kays island see Qais Kazvin see Qazwin Kědah see Kalah Kela see Kalah Kennedy, J. 19-20, 22 Kěrah see Kalah Kermān 6, 62, 67, 107, 125, 182, 139 Khabbisha 26 Khaitīyah 131 Khānfū (see also Canton) 105-106, 117-119 Khann 84 Khāngū 119 Khansā 117 Khāgānī 161 Kharga 18 Khatt 62, 64 Khawarnaq (al-Khawarnak) 63 Khotan see Khutan Khurāsān 5–6, 67 Khurāsānis 144 Khurdadhbih see Ibn Khurdādhbih Khurra Khusraw 75 Khushnami 78 Kliusraw Parwiz 74-75, 87-88, 91 Khutan 54, 115 Khūzistān 51, 61 Khwārazm 8 Khyber 55 Kiang Ning 102 Kiang-su 97 Kia Tan 104, 110-111 Kien-chen (Kien-čen) 98, 100-102 Kilā see Kalah Killah see Kalah Kilwa 132-137 Kilwa Kissiwani 185-136 Kin-k'ang 88 Kirman see Kerman Kīsh 115 Kisrā 66-67 Kitabu futūķi 'l-buldan 76-77, 107 Kitābu'l-fawā'id fī 'ilmi'l-baḥri 127, 130 uşūli'lKnowledge possessed by the Ancient Chinese of the Arabs 99-100 Ko-ko-söng-chi 111 Kong-chou 97 Kottayam 52 Kra see Kalah Kubād 68, 66 Kuché 54 Kudduvan 58 Kufas 91 Kuhistan 107 Ku kin ču 81-82 Külam Malī 116, 119 Kulliyat-i-Anwari 158 Kundranj 117 K'un-lun 81, 99, 101-108 Kuria Muria 52 Kusair 116 Kwan čou ki 81-82 Kwang-chou (see also Canton) 97. 99 Kwang si 97 Kwang-tung 97

Lac 81 Laccadives 78 Laconia 37 Lacrates 40 Laith b. Kahlan 127, 130 Lambri 101 Lanchowfu 54 Lands of the Eastern Caliphate 5, 68, 115 Langābālūs 116-117, 119 Langle 116 Laos 52 Lapis lazuli 143 Laufer, Berthold xii, 81-83, 99-103 Lazica 66, 85-87 Lead 83, 127 Leather 127 Lemboun 21 Lemnos 24, 87 Lesbians 25 Lesbian ships see Ships (Lesbian) Lesbos 41 Les Prairies d'Or see Muruju 'dh-Dhahab Lestai 112 Levant 17, 84, 95 Li 99, 109, 112 Liao dynasty 80 Libya 82 Li Chan 109 Life of Hiven-Triang 102 Life of Mohammad 74 Light-boats 27 Lighthouses 6, 110-111, 163 Lime 76, 134 Linen cloths 127

Lion's Mouth 9, 10, 12
Li Sün 81
Literary History of Persia 72,
75, 180
Lith, v. d. 126
Lives 29-82
Local Muhammadan Dynasties
147
Logan 116
Lop Nor 54
Lord, H. 108
Lucian 51
Lycian ships see Ships (Lycian)

Ma'bar 131
Mace 143
McCrindle, J. W. 66-68, 70, 114
Macedonia 24
Macedonians 25, 40
Māchin see China
Macrobii 51
Madā'in (see also Ctesiphon) 62-

63, 71 Maddeni 69 Madegane-lak-yom 60 Madina 64 Mafia island 134-135 Magadha 65 Magadoxo see Mogdishu Magaios 41 Magians 60, 76-77 Magna Graccia 24 Magnesians 28 Mahārāj (islands of) 126 Mahārāj (name of person) 3-4 Mahmud Shah Bahmani 153 Mahmud, Sultan 147 Maibud 6 Mājid see Ibn Mājid Major, R. H. xi-xii, 142 Makkiyah 131 Makran 4-6, 9, 11-12, 59, 65, 107 Malabar xii, 8, 54, 68-69, 114, 117, 119, 145 Malahārīs 146 Malabathrum 52 Malacca 3, 106, 112, 117, 125, 145-146 Malayans (see also Po-se (Malayan)) 85, 99-100, 102-103,

Malcolm, John xi, 163-164

Mále (see also Malabar) 68-69, 114, 116

117

Maldives 78

Malik Ayaz 147

Malqūtah 131

Mamelukes 144

Mamonas 143

Malus 34

Malik Tüghan 147

Man, Mr 116 Mandrocles 24 Mangalore 70 Mangarouth 70, 114 Maniach 70 Manocihr see Minüchihr Man du 99, 102-103 Māqit 119 Marallo 70 Marathon 26 Marco Polo 142 Mardānshāh 126 Mardonius 25, 27, 30-81 Marcspand, A. 60 Marib 46 Markab 131 Marmora, Sea of 12 Mary 55 Marwzan 75 Marzūbāns 76-77 al-Masālik wa'l-Mamālik 126 Mascanics 32 Masira 52 Masqat 116, 142 Masrūq 74 Massowa 49 Masts 89-90, 142 Mas'ud, Sultan 148-149 Mas'ūdī 6, 77, 106, 110, 125, Mathuawi-i-Rūmī 156-159 Mathura 55 Matla 'u's-Su'dain 142, 154 Maurya dynasty 55 Mazandaran 8 Mecca 74, 124-125 Medes 23, 45 Medic garments see Serio garments Mediterranean Sea 17, 23-24, 32, 46, 60-61, 85, 87 Megabates 24, 28 Megabazus 24, 27, 28 Megabyzus 33-34 Mekong, the 117 Mokrān see Makrān Melons 144 Memnon 40-41 Mémoire sur l'Inde 67 Memphis 18, 33, 38, 40, 47 Menander Protector 70 Mentor 40 Merchant-ships see Ships (merohant) Mesambria 112 Mesena 51 Mesopotamia (see also 'Iraq) 59, Methymna 40 Meyer, Eduard 22, 89, 51 Meynard, B. de 106, 110, 125 Miletus 25, 35, 40

Mindarus 35 Mingrelia 85 Minuchihr (of Persis) 51 Mirkhwand 65, 149 Misr see Egypt Mitepe 133 Mitylene 41 Mizen 90 Mobed 64 Modern Painters 159 Mogdishu 132, 137 Mo-lai 104 Moluccas, islands 146 Mombasa 132-133 Mongols 139, 141 Monsoon 5, 48-49, 97, 111, 141 Moon (see also Chandra) 89 Moscha 49 **Moses 162** Mosques 134-136 Mosul 21, 61 Moulton, J. H. 60 Mozambique 137 al-Mu'arrab min Kalāmi 'l-'Ajam Muāwia 95 Muchiri see Muziris Mughistān 114 Mughs see Zoroastrians Muhallabi 100, 126 Muhammad b. 'Alī 138 Muhammad b. Shadhan 126 Muhammad, Prophet 74-77, 96 Muhammarah 50 Muhiu'd-Din 132 Muir, W. 74-75, 95-96 Mules 103 Multan 148 Mundakha 132 al-Mundhir b. Sāwī 75-76 Munfasa sec Mombasa Muqaddasī 111-112, 115, 123-127, 131, 164 Murry, Middleton 159-160 Muruju 'dh-Dhahab 77,106,110, 125 Musabbahiyah 131 Muscat see Masqat Musk 68, 99, 127, 143 Muslins 46 Mustawfi, Hamdu'llah 12, 62 al-Mutawakkil 97, 138 Muthallathah 131 Muza 49 Muziris (Cranganore) 52-58,114 Mycale 51 Myndian ships see Ships (Myndian) Myos-hormus 48-49 Myozaeus 45 Myrrh 47, 82

Naband 115 Najiram 126 Nairan 71 Nākhudā (ship-captain) 77, 111, 128, 126 Nalopatana 70, 114 Nan čou ki 82 Nan-lu 54 Nansārī 108 Nao Savan (Nüshirwan) 79 Naphtha 146 Nariman, G. K. 107 Narses (of Persis) 51 Nāsiru 'd-Din Shāh 163 Natural History 48, 50, 52-53, 71, 78 Ndagoni 135 Nearchus 21, 23, 41 Nebo 19 Neco 18 Nectanebo 40 Negapatam 146 Negroes 79, 82 Neith 18 Nelcynda 52, 114 Neptune 28, 52 Nereids 60 Nero, Emperor 59, 71 Nestorians 70 Nicobar islands 101, 116 Nicolò Conti 141 Nicostratus 40 Niebuhr 21 Nihāyatu 'l-Irab 72-73 Nile, the 12, 18-19, 22, 38, 38, 40, 46, 50, 59 Nimrūz 4-5 Nigāmī (of Ganja) 129-130 Nöldeke, Th. 12, 88, 154-155 Notes and Queries on China and Japan 99 Notes on the Bauddha Rock-Temples of Ajanta 88-89 Nu'man 63 Numenus 51-52 Nüshirwan 60, 63, 66-68, 70, 74, 79, 85-86 Nüshjän 75 Nutmeg 148 Nuts 78 Nuzhatu 'l-Qulūb 12, 62

Oaracta 21
Oars 4, 38, 89-92
Obolla see Ubullah
Ocean (see also Sea (circumambient)) 49
Ocelis 73
Ochus 21
Oil 49
d'Ollone 80
Omar see 'Umar (Caliph)

Ommana 50 Onesicritus 73 Onyx 127 Ophirian 4 Opis 20 Oraca 50 Orissa and her Remains 52 Ormazd see Ahūra Mazda Ormuz see Hurmuz (island) Orontes 38 Orrhotha 69, 114 Otanes 24 Othman see 'Uthman (Caliph)
Ouseley, W. 4, 118-114
Oxus, the 12, 54-55, 153 Ozene 55 Pactyice 22 Paddinappalai 58 Pahlawi 6, 60, 64, 130 Pai-nan 100 Paintings (Ajanta) 88-90 Palembang (see also Bhoga) 98, 102, 118 Palibothra 55 Pamirs 54 Pamphylia 31 Pamphylian ships see Ships (Pamphylian) Pan Chao 54-55 Panjāb 55 Pāpak 59 Papremis 33 Paranar 58 Pārs 6, 17, 21-22, 51, 59, 64, 106, 115, 132, 141 Parsidae see Persians l'ārsī emigrations to India 106-108 Parthia 63 Parthians xii, 50-51, 70 Parti 69, 114 Paruck, F. D. J. 64-65 Parwiz see Khusraw Parwiz Pasargadae 41, 51 Paetophorus 18 Patumos 18 Peaches 144 Pearce, F. B. xii, 46, 76, 133-137 Pearl-fisheries 21

Pearls 48, 50, 52-53, 71, 83, 88, 127, 143

Pedians 80 Pegu 54, 145-146

Peguans 146

Pei hu lu 82

Peiraeus 35, 37 Pelliot, P. xii, 99, 102

Pemba 132-135

Peloponnesus 29, 86

Péi-lu 54

Peneus, the 28 Penteconters 24, 26 Pen ts'ao kan mu 81 Pepper 48, 52-53, 68, 82-83, 114, 127, 148 Perfumes 71, 127 Periplus of the Erythraean Sea 45-55, 78, 89-90, 114 Periyar, the 52 Persae 29 Persepolis 51, 95 Persia zi, 5, 118 Persia 85, 50-51, 55, 59, 63, 66-68, 76, 82, 99-100, 108-104, 182, 148, 164 Persian admirals see Admirals (Persian) Persian colonists see Colonists (Persian) Porsian dread of the sea xi-xii, 142, 158-154, 156, 159, 164 Persian embassy 81, 88-89 Persian Gulf xi-xii, 21-23, 45-46, 49-51, 60-63, 65, 67, 76-77, 83, 95, 98, 108, 110, 112, 114-116, 123, 125-126, 138-140, 164 Persian marines 23, 27, 73, 79, 123, 125, 128 Persian mosques (in East Africa) 184-186 see Pottery Persian pottery (Persian) Persian chips see Ships (Persian) Persian words in Arabian compass 83-84 Persians (in China) see Po-se (Persian) and Colonists (Pereian) Persis see Pars Petra 49, 86 Phabrizue 86 Phaleron 26, 29 Phanes 23 Pharaohs 46 Pharnabazus 34-35, 37-39 Pharnabazus II 41 Pharnnohie 41 Phaselis 34 Phasis, the 86 Phison, the 67 Phocaeans 17 Phoenicia 17, 23, 85, 88 Phoenicia 39 Phoenicians 17, 22-23, 26, 85, 40, 46-47 Phoenician ships see Ships (Phoenician) Physons 20 P'iao 99 Pider 146

Pigeons (see also Shore-sighting birds) 109, 111 Pillared tombs 135–136 Pirates 110-112, 141, 163 Pirāva 19 Pisander 36 Pishdādians 8-4, 61 Pisistratus 26 Pistachio-nnts 144 Plataca 31 Pliny 48, 50-53, 60, 71, 73 Plocamus, Annius 48 Plntarch 29-32 Poduca 52 Poll-tax 77 P'o-lo-men 99, 101-102, 104 Pomegranates 144 Pondoland 134 P'o-ni 99 Pontns 37 Poppes 71 Porcelain see Chinese ware Ports see Seaports Portugiesenzeit von Deutsch- und Englisch-Ostafrika 135 Portuguese 106, 137, 145, 147 Po-se (Malayan) 81-83, 99-100, 102 Po-se (Persian) 78, 81-83, 97-104, 106, 112, 115, 134 Poseidon see Neptnne Po-sse see Po-se Po-saï see Po-se Po ssu see Po-se Post- und Reiscrouten des Orients 119 Po-sz see Po-se Pottery (Persian) 134 Poudopatana 70, 114 Ponlo Condore 78, 117-118 Precions stones 46-48, 53, 66, 99, 108-104, 143, 146 Premier Congres int. des Etudes d'Ext.-Orient 98, 100 Prexaspes 28 Procopius 60-61, 68, 71, 86, 104, 114 Prolegomena 84 Prosopitis 33 Provision-ships see Ships (provision) Psammitichns 18 Psoralea corylifolia 82 Ptah 18 Ptolemies 85 Ptolemy 47 Puitika 61 Pukar 58, 142 Pulakésin 88-89

Pulicat 146

Puram 58

Pumpkin islands 78

INDEX Purple 50 Pntchuk 83 Pyrrha 41 Pythagoras 36 Qā'ānī 160 Qahtan 6, 46 Qais island 115, 138-141 Qansū 117 Qārib 131 Qazwin 6 Qazwīni 139 Qissa-i-Sanjan 107 Quedah see Kalah Queixome island 189 Quelijo 146 Quicksilver 83, 143 Quiloa see Kilwa Quilon 116, 119, 146 al-Quiznm 123, 125 Qumār 119 Quraish 75 Qur'an 96, 157 Qutbn'l-jah 84 Quibu'sh-shimali 84 Radishes 144 Radman 48 Raghn 52 Raghu Vamsam 52 Ragonis 22 Rahnāma 127-131 Rahmānaj (Rahmāni) see Rahnāma Rā'ish 6-7 Raisins 143 Ram Ardashir see Rishahr Ram Hurmuz Ardashir 61, 126 Rāmishna-i-Artakhshīr 62 Ranking 111, 125, 127 Rapson, E. J. 53 Raqqiyah 131 Ra's Hasik 51 Rawdatu 'ş-Şafā 65, 149 Rawlinson, G. xii, 17, 22, 27, 29, 39, 65, 67, 87, 91-92 Rāy-i-Shāpūr 62 ar-Rāzī 153 Record of the Buddhist Religion

97-98

125-126

118, 126

136

Red men (Erythraeans) 46 Red Sea 18, 22, 45, 47, 49, 123,

Reinaud 3, 67, 78-79, 105, 116-

Relation des Voyages 78-79,105,

Relations de Voyages et Textes

Géographiques 79, 98, 116-117 Renandot, E. 3, 106, 116-117
Report on the Zanzibar Dominions

Researches on Ptolemy's Geography of Eastern Asia 81, 100-101, 112 Rêve Parisienne 159 Rhapta 49, 137 Rhinoceros-horn 49, 100, 110 Rhodes 87 Rhubarb 143 Rice 49-50, 103, 114, 148-144 Rigby 136 Rishahr 61-62, 64, 112-114 Rock-crystals 83 Rockhill, W. W. 54, 78, 81-82, 104, 109-112, 184 Romance of Alexander see Iskandar-nāma Romans 48, 53-54, 69-70, 75, 85-87, 92, 114 Rome 59, 65, 71 Rooke 50 **Rosaces** 40 Rose-water 143 Rowers 90-92 Rubies 127, 143 Ruskin 159 Rustam 7-8, 155 Saba 46, 71 Sabaea 47 Sabaeans 47, 65, 85, 163 Sab'al-Mu'allagat 79 Sabdavidya 97 Sacae 23 Sacchari 49 Sachau 80 Sa'di 153 Sadir 63 Safarnāma 168 Saffron 127, 143 Safinah_80, 131 Sahl b. Aban 127 Saif 71-73, 75 Saif Bani as-Saffaq 116 Sailing directory (Arabian) 124. 127-128 Sailing directory (Chinese) 110 Sailing directory (Persian) 127-Sails 4, 89-90, 97, 109, 141 Saimūr 126 Saïs 18 Salad 144 Salamis 29-82 Salamis (capital of Cyprus) 34 Salbar 83-84 Salih 162 Salopatana 70, 114 Salt 114, 143 Samarqand 55

Samians 24-25

San'ā' 124

Sandalwood 48, 50, 53, 68, 83, Sandarach 127 Sanf 117, 119 Sanjan 107 Sanjana, B. K. H. 107 Sanjana, D. D. P. 60 Sankhi 117 San Sebastian, cape 164 Sa-poh 65 Sapphires 148 Sarandib see Ceylon Sarandīb-Shāh see Bahū Sardis 24, 29, 85 Sasam 127 Bāsān 59, 78 Sāsān Aljarūn 75 Sāsānian Coins 64-65 Sataspes 32-33 Sāvah 6 Sayf see Saif Schindler, A. Houtum 6 Schoff, W. xii, 45-48, 54-55, 73, 89-90 Scyathus 28 Scylax 22 Scythia 23 Scythians 23-24 Sea (of China) 117, 124, 129 Sea (circumambient) 12-13, 129-130, 164 Sea (Eastern) 53 Sea (of Fars) see also Persian Gulf 125 Sea (Green) 104 Sea (Muhammadan) 95-97, 123, Sea (Southern) 53, 97, 102-104, 109, 111, 119-120, 126, 131, 141, 147 Sca (Western) 49, 103-104, 126 Sea (of the Zanj) 133, 137-138, 164 Sea (Zoroastrian) 59-61 Sca-animals 163 Sea-charts see Sailing directories Sea-currents 129-131, 164 Sea-empire 36 Sea-monsters 10, 13, 154-155 Sea-ports 6, 21-22, 48-52, 54, 62, 65, 68-70, 73, 98, 103-104, 106-108, 112, 114, 130-131, 141-147 Sea-power xi, 17, 22-23, 29, 41, 51-52, 87, 123, 138-141 Sca-route xii, 49, 54, 69, 92, 101, 112, 114-120 Sea-terror see Persian dread of the sea Sea-trade xii, 22, 48-49, 51, 53-54, 63, 66-67, 69, 76-79, 81-83,

97, 103-104, 110, 112, 124-127. 187-138, 141-147, 164 Sea-voyages, time required for 97-98, 116-120, 142 Seba 46 Seiros 87 Seleucia 20, 60-61, 63 Še-li 99 Semecarpus anacardium 82 Sepias 26, 28 Se-p'o 99 Seres (see also Chinese) 69, 71 Seric garments 69 Sesame logs 68 Sesame oil 49 Scatos 26 Seventh Great Oriental Monarchy 65, 67, 87, 91 Shabū 131 Shadha 131 Shadlırawan 21 Shahin 87 Shāh Ismā'il 147 Shāhnāma 3, 5–13, 155 Shahr-Barz 59, 86-87 Shah-rukh 141 Shah Tahir 147 Shalandi 131 Shamut 181 Shan 52 Shangaya 133 Shanküliyah 131 Shāpūr II 64-65, 76, 164 Shatta 'l-'Arab, the 50, 112 Shawghu 132 Shaykh Sa'id 73 Sheep 103 Shibli Nn'mani 155 Shini 131 Ship-agents 48-49, 123 Shipbuilders 3, 48, 123, 125, 131, 164 Shipbuilding 50, 86, 142 Ship-eaptains (see also Nakhuda) 49, 77, 110-111, 123, 126, 128 Ship-groove 27 Shī-po-shī 110 Ships (Aeolian) 27 Ships (African) 49 Ships (Ajanta) 89-90 Ships (of Alexander) 22, 129-180 Ships (Arabian) 48-49, 95, 104, 106, 110-112, 115-119, 131, 137, 141, 145-146 Ships (Assyrian) 91-92 Ships (Athenian) 24, 29, 31, 33-36 Ships (of Bengal) 145 Ships (of Calieut) 144-145 Ships (Carian) 27-28

Ships (Chinese) 54, 89, 106, 115-120, 145 Ships (Cilician) 27, 84 Ships (Cyprian) xi, 23, 27, 87 Ships (description of) 90-92,97, 109 Shipe (Dorian) 27 Ships (Dravidian) 48-49, 53, 68-69 Ships (Egyptian) xi, 27-28, 32, 37-88 Ships (Eretrian) 24 Ships (Ethiopian) 68 Ships (Gujarātī) 50, 90, 137, 189, 146, 149 Ships (Hellespontine) 27 Ships (horse-transports) 25, 27-Ships (of Hurmuz) 142-143 Ships (Indian) see Ships of Bengal, and Ships (Dravidian) and (Gujarāti) Ships (lonian) 25, 27-28 Ships (Lesbian) 24 Ships (Lycian) 27 Ships (Malayan) see Ships (Po-se, Malayan) Ships (merchant) 90, 109-112 Ships (Muslim) 123, 125 Ships (Myndian) 24 Ships (Pamphylian) 27 Ships (Persian) see also Boats (Persian) xi-xii, 3-11, 22, 50-51, 65-69, 72-74, 79-81, 89, 97-98, 102-103, 106-112, 114-120, 125, 131-134, 138-140, 148, 146, 149, 154-155, 161-163 Ships (Phoenician) xii, 18, 28-25, 27, 31-34, 36 Ships (Portuguese) 145-147 Ships (Po-se, Malayan) 81 Ships (Po-se, Persian) see Ships (Persian) Ships (provision) 28 Ships (Sidonian) 24, 27-28 Ships (Spartan) 36 Ships (Thracian) 27-28 Ships (Tyrian) 37 Ships (of the Yavanas) 52-53 Shīrāz 4, 61, 115, 132, 134, 137, 140 Shirāzis 76, 132-138, 140-141 <u>Shiru 'l-'Ajam</u> 155 <u>Sh</u>Isham 127 Shoals 111-112, 115, 155 Shore-sighting birds 109, 111, 128, 131 Shu'arā'u'n-Naṣrānīyah 80 Shurub 127 Siam 99, 112, 145 Siamese 146

Sibor 69 Sibukht 77 Sioily 34 Sioulus see Diodorus Siculus Sidodont 21 Sidon 89, 41 Sidonians 39 Sidonian Ships ships 86C (Sidonian) Sielediba see Ceylon Sijistān 107 Sikandar Shāh 145 Silk xii, 54, 68-71, 105, 114-115, Silk-cloth 52, 54, 104, 114, 143 Silk-culture 71, 115 Silk-trade xii, 55, 114-115 Silkworm 70, 105 Silk-yarn 114 Silsilatu't-Tawārīkh 78-79,105, 109, 118 Silver 47, 71-72, 88, 114 Sin (Sinae or China) 69-70 Sinabasos 143 Sinolair, F. 139-140 Sind 65 Sindu 68-69, 114 Singanfu 54 Sino-Iranica 81-82, 99-103 Siphnus 41 Sira 106, 110, 115-116, 125-126, 138, 164 Siratu 'l-Kilawiyah 132-135 Sistān 5-6, 67 Sitacus 22 Skins 127 de Slane 84 Slaves 48, 50, 127 Slavonians 87 Smith, V. A. 59, 89 Socotra 66, 128 Sofāla 103, 125, 137, 164 Sogdia see Sughd Solois, cape 32 Solomon 4, 157 Somali coast 5, 50 Somnāth 12, 148-149 Sopatma 52 Sopatrus 65-66 Soranatis 143 Sosicles 80 South Africa 134 Sonthern sea see Sea (Southern) Spain 96, 144 Sparta 28, 33-38, 41 Spartans 85 Spartan ships see Ships (Spartan) Spasinus 50 Spelman, E. 20 Spices 46, 48, 143 Spiegel, Fr. 115

Sprenger, A. 48, 75, 119 Sribhoga (see also Sumatra) 98, 102 Stanley, E. 188, 144 Steel 88 Steering (technique of) 90, 111 Stem (of ships) 91-92 Stern (of ships) 89-92 Storax 88 Storms (see also Wreok) 28, 141, 154-155 Strabo 20, 51, 75 Strandes, J. 185 Strange, G. le 5, 12, 62-63, 115 Streck 21, 113 Studies in Parsi History 107 Stuhlmann, F. 76, 135-136 Suan-oh'üan 54 Sudāba 7 Suez 18, 22, 150 Sugar 83, 126-127, 148 Sughd 70 Suhār 124, 126 Sui šu 82 Sukhār 'Umān 116 Su Kun 82 Sulaimān 78, 106, 109-110, 115, 118-119 Sulaimān al-Mahrī 127 Sulphur 143 Sumatra 77, 82, 98-102, 111, 118, 120, 126, 145-146 Sundeep island 145 Sundur-fülät 78, 117-118 Sung 82 Sunium 29 Sü l'ias 82 Süqiyah 131 Sūqu'l-Ahwāz 62 Surat 108 Susa 22, 36 Su Sun 81 Swaley 108 Sykes, P. M. xi, 6, 19 Syria 38-39, 47, 63, 87, 95, 112, 128

Tabari 6, 64-66, 68, 72-73, 76, 88

Tachoe 38-39

Taghlib 64

Tai Ārabs 80

Tairah 131

Tājīk 79-80, 101

Tājū 'l-'Arūs 79-80, 128

Takakusu, J. 97-98, 100-101

Talawwā 131

Tamarinds 143

Tamil literature 52-53, 116

Tamils Fighteen Hundred Years

Ago 52-54

Tamoe 35-36 Tamynae 25 T'ang 80-82, 99 T'ang-Kuo-shi-pu 109 Taöcó 22 Taprobane see Ceylon Tāq-i-Bustān 91 Tarafah 79-80 Tārikh-i-Baihaqi 149-150 Tārikh-i-Firishta 149 Tārī<u>kh</u>-i-Guzīda 62 Tārīkhu 'l-Kāmil 148 Tārikhu 'l-Mustabsir 127-128, 180 Tarim, the 54 Tarnasari 145 Tarsias 21 Ta-shi 79-80, 99, 102-103, 106 Ta-t'ang-si-yu-ku-fa-kao-sêng-Ch'uan 97–98 Tats 80 Ta-ts'in 54, 63 Tavernier 21 Taxila 55 Ta-yin-k'un 99, 103 Tayyar 131 Tazi 79 Tcheng yilan sin ting che kiao moù lou 98, 118 Teakwood 50, 115, 124, 127 Teaspes 32 Teians 17 Tennent, J. E. 66-67 Tcrek 55 Terradas 140, 147 ath-Tha alibi 6-7, 67-68, 73 Thasians 25 Thebes 36, 47 Themistocles 29-80 Therma 28 Thermopylae 26, 29 Thessaly 31 Thetis 60 Thinae 54 This (China) 54 Thrace 24 Thucydides 83-35 Tibet 106 Tiele, C. P. 60 Tien-chu 63 Tien-tseu 78 Tiger-skins 127 Tiger-stamp 53 Tigris, the 19-21, 50, 61, 63, 79, 91, 123, 162 Tin 126 Tir 83-84 Tiribazns 37-39 Tiridates (of Armenia) 59-60 Tiridatee (of Persie) 51 Tirmidh 158

Tamim 64, 76

Tissaphernes 84-36 Tithraustes 31 Tiuman, isle of 117 Tiyuma 117-119 Tiz-Mukran 125 Tjams 79 Toll 112 Tongking 54 Tongoni 186 Topaz 148 Torquoise 148 Torr, C. 90, 92 Tortoise-shell 49, 110 Tranquebar 70 Travels in the East 4, 113 Travels of Fa-heien 116, 119 Travels of Ludovico di Varthema 145 Travels of Marco Polo 142 Travels of Nicold Conti 141 Travels of Pedro Teixeira 139-Trebizond 20, 36 Triëconters 27 Triremes 24-28, 41 Tsiemo 54 Tsin dynasty 81 Ts'in-lun 54 Ts'ni Pao 81 Tnan Ch'ong-shi 109 Tuhfatu 'l-'Iraqain 161 T'n-huo-lo 103 Tukhāristān 103 Tulah 113-114 Tumbatu island 136 Tun-huang 102 Türān 8 Türan Shah 140 Turkistān 139 Turks 70, 144 Turmerio 88 Tush 88 Tyre 41 Tyrian ships see Ships (Tyrian)

Ubullah 62, 78, 106, 110, 112, 114-115

'Umān 51, 77, 106, 110, 112, 115-116, 124-127, 132, 149, 164

'Umān (rooks) 116

'Umar Caliph 77, 95, 115, 138

Urumia 87

Utcha-Her-resenet 18

'Uthmān Caliph 96-97, 138

'Uwair 116

Tzinista see China

Vajrabodhi 98, 101, 104, 118
Varthems, Ludovico di, 146
Vasudeva 65
Vatican 18
Venetians 141
Venice 141
Vermillion 148
Viet 52
Vijayanagar 141
Vincent, W. xi, 21, 47, 75, 85
Vologaeses I 59
Voyage au Cambodge 79
Voyage au Arabie 21
Voyages (time required for) see
Sea-voyages
Wahadimu 188, 188
Wahashat Ardashir 61-62

Wahsitäbād Ardashir see Waha-

Wahriz 72-75

shat Ardashir

Walajiyah 131 Walisjan 75 Walnuts 82 Walrus 163 Wapemba 133, 138 Warner and Warner 5-6, 8, 12 Wāsitīyah 131 Watumbatu 133 Wei 81 Wei žu 82 Western sea see Sea (Western) Wheat 49-50, 114 Whirlpool see Lion's Month Wih Ardashir 62 Wilson, C. E. 156-158 Wine 50, 114, 144 Wood-carving 76, 184 Woollen-oloth 143 Wordsworth, W. 159-160 Wouru-Kasha 61 Wreck 28, 30, 72-73, 98, 101, 111, 140, 142, 148, 150 Wu-hing 98 Wu-la 104 Wüstenfeld, F. 139

Xenophon 18, 20, 35-36 Xerxes 19, 26-30, 82-33, 60 Yamamah 64

Yaman see Pemba Yanb'a see Pemba Yang-ohon (Yan-čou) 97-98, 101

Yang-fu see Yang-ohon Yangiu see Yang-chou Yangtse, the 101 Yaqsüm 74 Yarkand (Yarqand) 54, 115 Yārūb (Jerab) 46 Yavanas 52 Yazdigird 97 Yemen 8, 20, 49, 66-67, 71, 78-76, 124–125, 182, 164 Yezd 6 Yi Tsin see I-tsing Yon 52 Yona 52 Yüan 52 Yüan-tchao 98, 118 Yüeh 52 Ynen 52 Ynle 69-71, 79, 98-99, 115, 117 Yilmenhaien 54 Yun-č'an 99 Yünnan 54 Yünus b. Mihran 126 Yu yan tsa tsu 81, 100, 134 Zab 21

Zabid 124 Zābij (see also Java) 117, 125 Zābnlistān 67 Zabzab 131 Zafāri, mts. and district 36 > Zafāri, mts. and district 36 > Zainu 'l-Akhbār 148-149 Zang 84 Zangi 78 Zanj (see also East Africa and Sea of the Zanj) 125 Zanzibar 46, 76, 133-137 Zanzibar 115, 132-135 Zāra 77 Zartushtra 60 Zawraq 80, 131 Zeila 49 Zimbabwe mines 137 Zion, mt. 50 Zirbādīyah 131 Zircon 143 Zirreh 5-6, 11-12 Zirih see Zirreh Zoroaster 59 Zoroastrians (see also Po-se, Persian) 105-106, 109, 118-114 Zotenberg, H. 7, 67, 78 Zuama 187

Zuhair coast 115

